architecture/construction symposia

november, 1967

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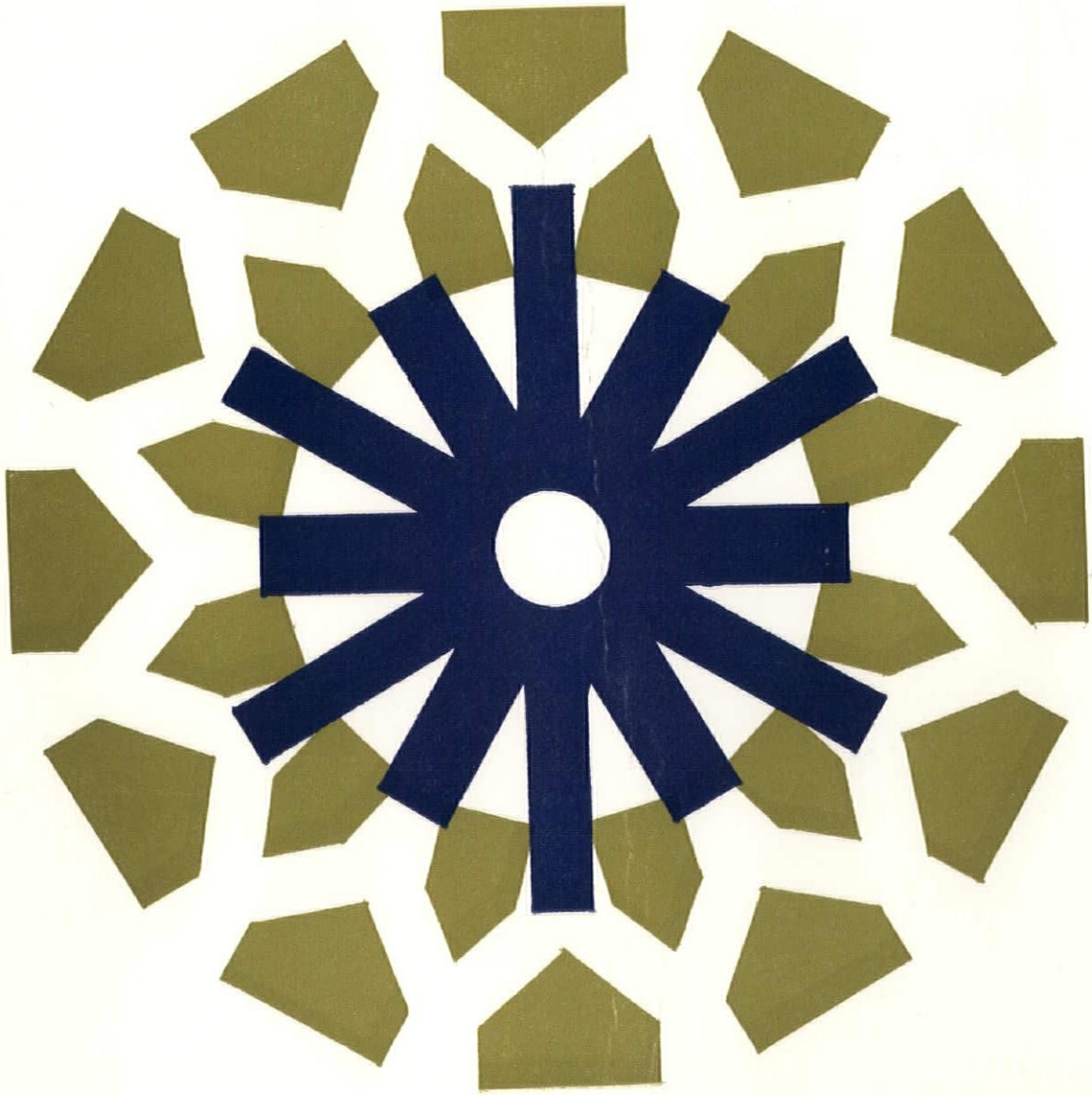

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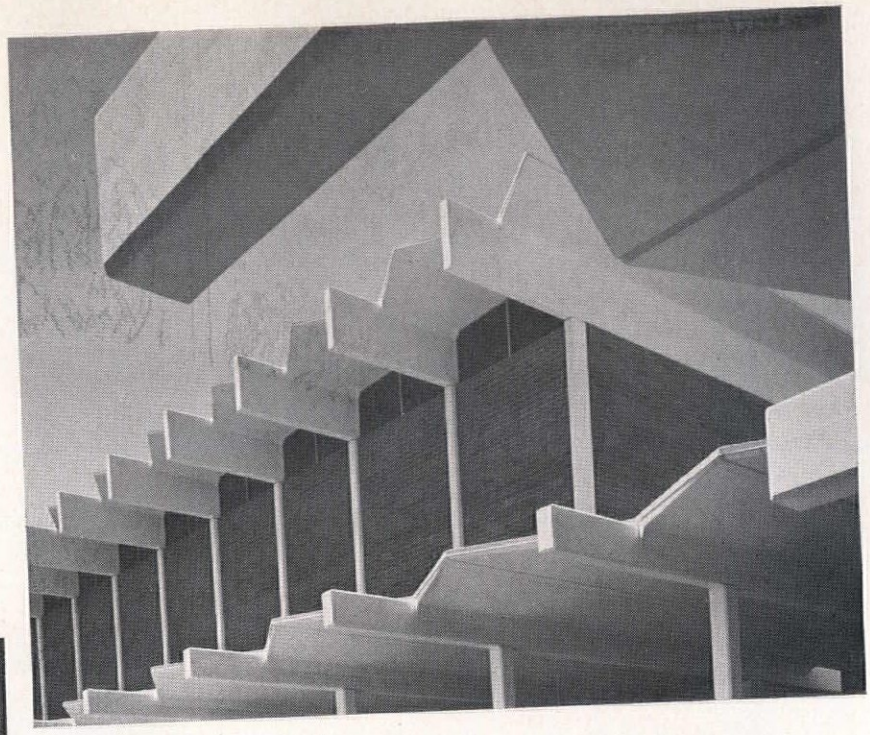

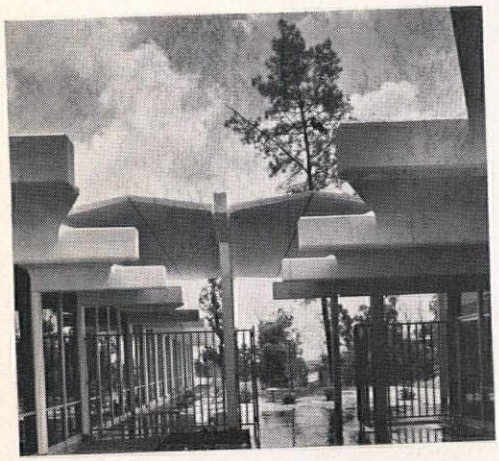

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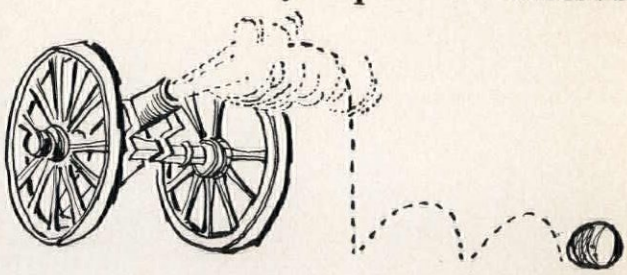
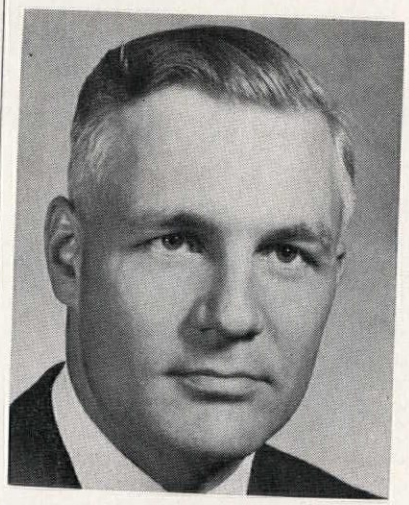


TO:
John B. Ten Eyck
General Chairman
Western Mountain Region
Convention/A.I.A.



It is right and fitting that November's Symposia Salute be fired in honor of John Ten Eyck who in these early days of November will see his months of planning and coordination reach final fruition. The task of the General Chairman of a Western Regional Convention is one of not just planning, but tying up a thousand and one tag ends—and never being really sure that the knots will hold until the conference ends. In every regard, John Ten Eyck has done his job well—and with endless patience and great good humor.

A native of Connecticut, Mr. Ten Eyck studied at the Loomis Institute in Windsor, and received his Bachelor's in Architecture from the Massachusetts Institute of Technology. During this period, he spent five years in the United States Air Force as a pilot, and is still enthusiastic about aviation.

He "came West, young man" in 1958, and opened his own architectural practice in Colorado Springs in 1963. The following year, he formed a partnership with Harry M. Pierceall, and their diversified practice includes everything from churches to airplane hangars. Deeply concerned with the urban environment, Mr. Ten Eyck is a member of the El Paso City Planning Commission.

He is married, and he and his lovely wife, Frances, are the proud and devoted parents of three daughters, Julia (9), Elizabeth (7) and Katherine (3).

John Ten Eyck is a warm and considerate person whose fine human qualities have contributed immensely to the success of the 16th Annual Western Mountain Region Conference. He is more than deserving of November's Symposia Salute.

architecture/construction

symposia

Official Publication AIA
Western Mountain Region Convention

serving the construction public in Colorado, Wyoming, New Mexico, Utah, Arizona, Nevada

VOLUME 2 NUMBER 6 NOVEMBER, 1967

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the last word:

Jim Cushing (Elder Statesman and Symposia Board Member) from Albuquerque, and C. Walter Scott, Director of Region 10, from Salt Lake tell us that the Region 10 Regional Conference dates have been set. CSI members should circle January 25, 26 and 27 on their 1968 calendars!

At hand--Tucson Topics--the handsome Newsletter of the Tucson Chapter of the Construction Specifications Institute. Our first glimpse of same, and we are most impressed with the news format and coverage. Thanks to Tucson and Congrats to Topics Editor, Alfred Burlini for a good job, well done!

Executive Secretary of the Utah Chapter of the Consulting Engineers Council, Mr. James W. Hamlett has been elected president of the Intermountain Chapter of the Public Relations Society of America.

Harold Herren, who chairs the Educational Committee of the Colorado Contractors Association, Inc., has announced the awarding of ten tuition scholarships to young engineering students attending Colorado colleges and universities. Half of the scholarships are at CSU, one at the Colorado School of Mines, two at Colorado University, one at Fort Lewis and one at Northeastern Junior College.

David H. Curtis, Curtis Engineering, and a member of CEC/Utah has been appointed to a three year term with the Department of Business Regulation and Department of Registration. He will serve on the Business Regulation Commission for professional engineers and land surveyors.

Symposia would like to bestow a star for a crown. This one is well deserved by Sharon Briggs of Information Services, the Octagon, Washington, D.C. She was of immeasurable help in preparing the article on the Colorado Chapter's Diamond Jubilee, and this month came up with the missing WMR Conference dates which had apparently escaped the minds of man in this area. Sharon admits to a soft spot for Colorado since she is a former CWC-er.

Mel Cole, Student Member of CSI/Tucson has moved to San Diego. Very active in the preparation and success of the Tucson Chapter's Manual of Information--Mel will be much missed by CSI in Southern Arizona.

CSI National President, John Anderson has been flying hither and yon recently . . . two new chapters have been chartered . . . Fresno and East Bay Oakland in California. Hither, he met with officers of CSI/Salt Lake City, and yon, talked with immediate Past-President, Henry Baume in Denver.

Harvey A. Kadish, CEC/Colorado executive director and Public Relations Council, moderated a panel discussion on closer cooperation between media and Consulting Engineers. Harry Walker (Daily Journal), William Stanfill (Western Engineer), George Burke (Professional Engineer) were on the platform with Fletcher B. Trunk, Symposia's Publisher. By the by, thanks to Vern Konkel for the many kind words he had to say in re: Symposia. Much appreciated.

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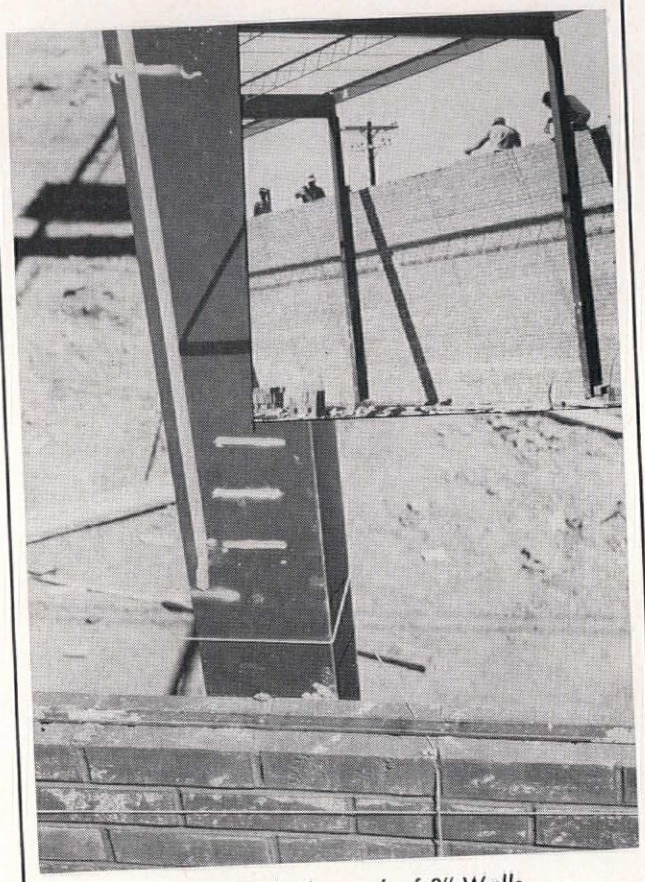

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An important CSI meeting is slated on November 11-12 when the Institute's Executive Committee will meet in Denver. The Mile High, you know, is the site of the CSI 12th Annual National Convention and Exhibition

---

Symposia THANKS to CEC/Utah's excellent Bulletin for speaking so kindly! And by the way, we're delighted to know that the handsome CEC Membership Certificates are also presented to members of the Utah Chapter.

Keynote speaker for the Mountain States Business Exhibit and Conference held in Denver in late October was Cedric Foster, prominent newscaster and commentator. Hundreds of business products and services were displayed for purchasing agents, plant and office managers, maintenance personnel, and contractors from a 14-state area.

PROMOTED: Former Chief Engineer, Howard A. Bader, has been promoted to Associate and Engineering Projects Manager by the Denver-based firm of McFall and Konkel, Consulting Engineers. Symposia congrats are in order, Mr. B!

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SIZES AND SPECIFICATIONS

	El Juarez	The Alamo
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Stiles	9½″	5½″
Top Rail	9½″	5½″
Cross Rail	5″	2⅝″
Mulls		2⅝″
Bottom Rail	9½″	9⅝″

All doors are 1¾″ thick. The Alamo has 1-5/16″ thick panels; El Juarez has 1⅛″ panels.

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SIZES AND SPECIFICATIONS

Door Sizes	The Grandee 2'8" x 6'8"	The Grandee 3'0" x 6'8"	The Madrid 3'0" x 6'8"
Stiles	4⅜"	5½"	5½"
Top Rail	4⅜"	5½"	7⅞"
Cross Rail	4⅝"	4⅝"	4⅝"
Mull	4⅝"	5⅝"	5⅝"
Bottom Rail	9⅝"	9⅝"	9⅝"

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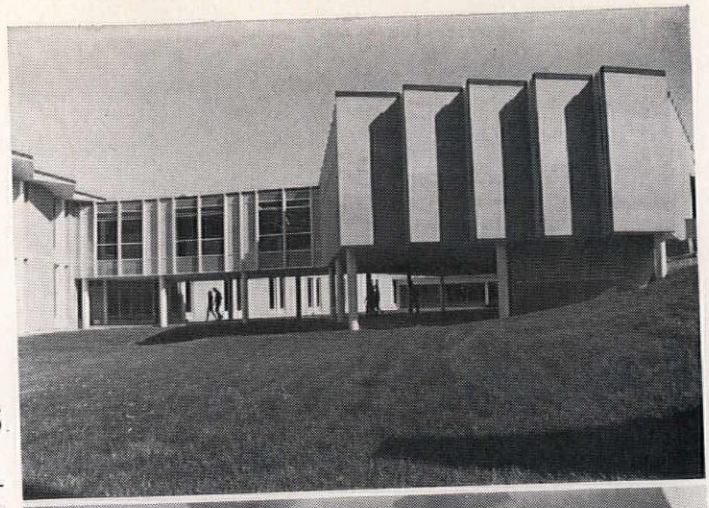

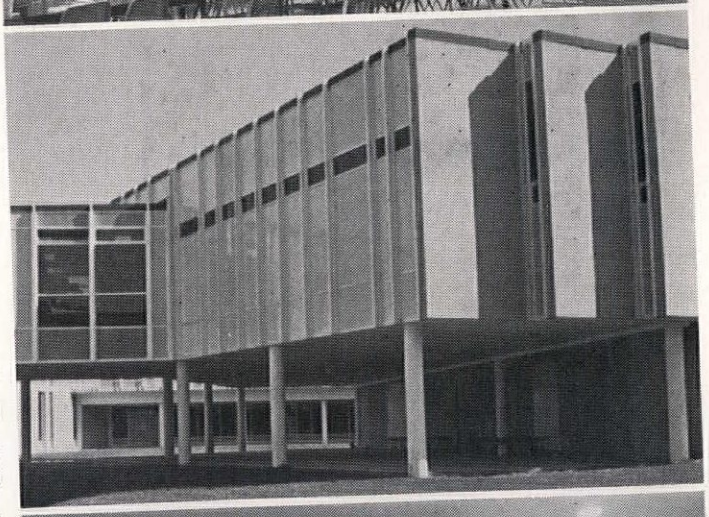

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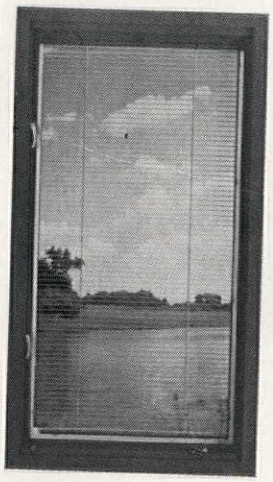

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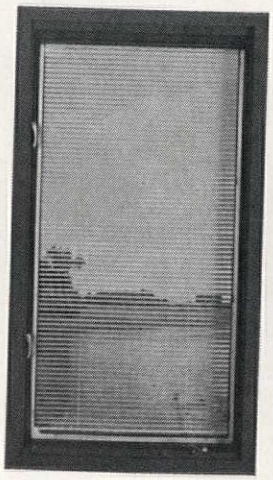

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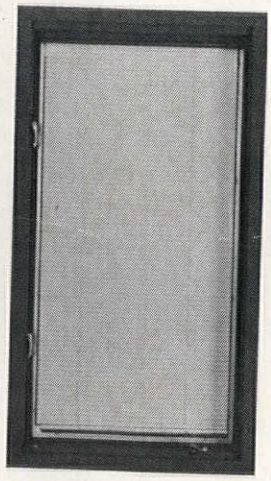

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elevation

It has been only in relatively recent years that the architect has evidenced professional concern for the city as a total entity, as opposed to his earlier and more traditional concern for those individual buildings that collectively help to make up the city.

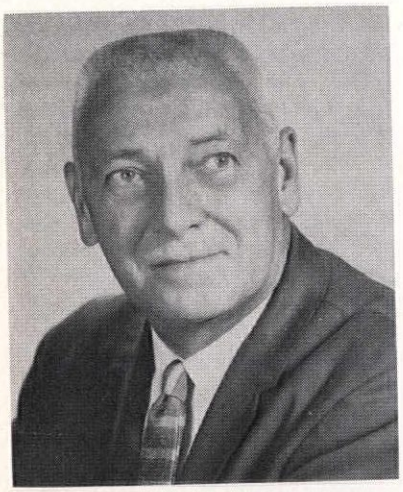
In a nation as highly urbanized as ours, the quality of national life depends to a great degree on the quality of urban life. If the architectural profession is really serious about its current invasion of the entire urban scene, perhaps, then, no better topic for the AIA Western Mountain Region Conference could be found than the one selected: "The Town Around Us."

This is a timely topic, highly appropriate for the regional discussions and will undoubtedly be made stimulating for the participants. Hopefully the conferees will return to their home bases more willing to take a positive stand on the many civic matters fringing the more specific practice of architecture. This is, of course, the purpose of the conference and the hope of its sponsors, because, as we all realize, one of the greatest needs today is for as large a group as possible of trained professionals to stand unified and ready to be counted in support of those factors that we know are required to improve the rapidly deteriorating urban scene. Such a stand will take both **courage** and **knowledge** in about equal proportions.

The "KNOWLEDGE," first of all, must be able to accept and identify all the things other than its architecture that make the city more than just a collection of buildings. These things are the urban spaces between and around the buildings, the parks, the plazas. These are the furnishings of the city, often called the "street furniture," but including signs, symbols, lights, color, kiosks, etc. These are the textures and patterns of the floor of a city: the asphalt, concrete, brick and also the third dimensions of the city—its ups and downs, its changes of grades, its linear vistas and its vertical profiles to the sky. Most of all, there is the choreography of the city: the pedestrian paths and the way they are used; the activity factors, be they a pedestrian watching a fountain, crossing a street or sitting at a sidewalk cafe. Then there is also choreography of automobile traffic as only one other dimension of urban speed but one of major importance.

The "COURAGE" will require the willingness to insist that all those things that "knowledge" identifies with the city be kept in their proper proportion. That signs instruct but do not dominate, that the pedestrian paths are not violated by the automobile, that there are appropriate variations to the floor of the city; that the linear vistas are interestingly interrupted, that the color of the city is not drab and dull but neither is it garish. The "courage" will also require that we as architects accept yet another dimension in our new thirst for improving the urban scene, namely, that change requires time, and a city is an especially delicately balanced complex constantly under change of its own making. How quickly we help speed up this natural maturing process will require great skill, great knowledge and, certainly, great courage!

Yes, the regional topic is a good one. Its ultimate value will depend only upon the seriousness of the conferees.



Sidney W. Little, F.A.I.A.
Director/Western Mountain Region
American Institute of Architects

THE TOWN AROUND US

Sixteenth Annual Convention of the
Western Mountain Region/American Institute of Architects

the life and times of . . .

THE WESTERN MOUNTAIN REGION/A.I.A.

by James M. Hunter, F.A.I.A.

Holding the Sixteenth Annual Western Mountain Regional Convention in Colorado Springs at the Broadmoor Hotel is particularly fitting and appropriate, since the **first** and Organizational Convention was held there on March 6, 7 and 8, 1952. It is like returning to "home base."

This fact gives pause for reflection on the problems of the Region — its growth and its accomplishments — and also — its good fellowship and fun.

Prior to that 1952 convention in Colorado Springs, the Region was, in effect, a "paper" organization — without Regional by-laws — without a Regional Council — and without a Regional Program.

It was the Colorado Chapter who first asked the questions "vocally" that were in every Chapter's mind — "Why don't we get organized?" "Why don't we GO?"

The correspondence flew, agreements were reached, enthusiasms were enflamed — and — without budget — without experience — and without pontifical blessings — BUT with the wholehearted support of every Chapter in the Region, the Region **DID** "get organized;" it did "go."

The Colorado Chapter accepted the challenges and, as its then President, I appointed Henry Baume as Chairman, with Gordon Sweet and Norton Polivnick as the General Convention Committee. They, in turn, organized their various sub-committees and everyone responded beautifully . . . worked hard . . . and we were off.

The program included such names as Garrett Eckbo, the Landscape Architect from California; Bernard Thompson, the Attorney-Author of "It's the Law" in **Progressive Architecture;** with Robert L. Stearns, then President of the University of Colorado as our banquet speaker.

Some of the "people events" worth remembering about that first convention include Henry Baume, in stocking feet, stealthily pilfering cheese from the neighboring Grocer's Convention—for late hour hors d'oeuvres in the Broadmoor Bar during the great "Limerick Contest"—which was easily won by Bob Stearns. Carol Hutchings borrowing a telephone credit card—and disappearing for a long, long visit. Lu Hasseldon, of New Mexico, giving us the New Mexican Senator's version of New Mexico's problems.

That first convention elected Gordon W. Jamison (now deceased) — that peppery little "Scot" from Denver, as the Region's new Regional Director. Brad Kidder was appointed Chairman of the By-laws Committee, whose work organized the Regional Council and set up the machinery for Jamison's administration. Those By-laws were adopted in March of 1953 at the 2nd Annual Regional Convention.

A spirit of easy professional rapport and good fellowship was established at that first try—and this spirit has branded all succeeding conventions.

The Region then consisted of the Arizona Chapter, with 42 Corporate members, Colorado Chapter, with 72, New Mexico with 47, Utah with 51, and Wyoming with 22. A total of 234 Corporate membership. Nevada, at that time, was still a part of the California Region. The 1967 convention will more than double these numbers.

The 2nd Regional Convention was also held at the Broadmoor, April 9, 10 and 11, 1953. Gordon Sweet was the General Chairman, and a full-fledged and more sophisticated effort was now possible. Jamison was now firm in the saddle as Regional Director — the By-laws were adopted — dues levied on a Corporate per-capita basis — and the Region's basic problems were attacked with vigor and enthusiasm. In attendance were 50 Corporates, 30 Associates, 10 Students and 70 Producers' Council members.

That year's Program included Campbell and Mergonigle, of Ketchum, Inc. The National Body's Public Relations Council; David Baer, discussing the A.I.A. Standard Accounting System; Elliot (Jack) Spratt, President of the Producer's Council; Orley Phillips, Denver Structural Engineer; and Edgardo Contini, City Planner and a partner of Victor Gruen and Associates. Our Banquet Speaker was the very funny Roger Allen, A.I.A., of Grand Rapids, who discussed architecture, coat hangers, and fruit flies.

Glen Stanton, F.A.I.A., the National President of the Institute, was in attendance, and addressed the Honor's Award Luncheon. Ned Purves, F.A.I.A. (now deceased) was present and assisted with the Region's organizational problems. We now felt that we were a part of the National picture, and had really "arrived."

The Producer's Council provided a much appreciated cocktail party and organized the Product Exhibits — which provided a source of income for the general expense of the Convention, as well as an informative, first hand product review.

Through the years, this cooperation of the Producer's Council has meant much to the success of the Regional Conventions — providing them with excellent and informative displays — genial hospitality at their cocktail parties — and an opportunity for the product manufacturers representatives and their ladies to become better acquainted with the architects and their ladies.

This has created a good "team" relationship within the Industry, which, in my view, should be carefully preserved.

The Honor's Award Program was instigated as an effort to up-grade the regional architectural performance of the Profession.

Space will not permit detailed discussion of the ensuing Regional Conventions other than to list them as follows:

LIST OF A.I.A. REGIONAL CONVENTIONS

Convention	Place	Date	Year	Regional Director
1	Colorado Springs, Colo.	March 6, 7 & 8	1952	G. Jamison
2	Colorado Springs, Colo.	April 9, 10 & 11	1953	G. Jamison
3	Santa Fe, New Mexico	April 22, 23 & 24	1954	G. Jamison
4	Phoenix, Arizona	April 28, 29 & 30	1955	B. Kidder
5	Salt Lake City, Utah	Oct. 18, 19 & 20	1956	B. Kidder
6	Jackson Hole, Wyo.	Sept. 5, 6 & 7	1957	B. Kidder
7	Denver, Colo.	Sept. 25, 26 & 27	1958	B. Porter
8	Albuquerque, N.M.	Oct. 8, 9, & 10	1959	B. Porter
9	Tucson, Ariz.	Oct. 26-29	1960	B. Porter
10	Reno, Nevada	Sept. 21, 22 & 23	1961	L. Snedaker
11	Sun Valley, Idaho	Sept. 27, 28 & 29	1962	L. Snedaker
12	Jackson Hole, Wyo.	Aug. 22, 23 & 24	1963	L. Snedaker
13	Las Vegas, Nevada (The Lucky One)	Oct. 12, 13 & 14	1964	J. Hunter
14	Phoenix, Arizona	Oct. 21, 22 & 23	1965	J. Hunter
15	Santa Fe, New Mexico	Oct. 13, 14 & 15	1966	J. Hunter
16	Colorado Springs, Colo.	Nov. 5, 6, 7 & 8	1967	S. Little

The sixteenth offers an excellent program, which is discussed in other articles, and Sid Little, F.A.I.A., Regional Director, and his Committees are driving hard.

How do our efforts compare with other regions? From the vantage point of my years of service as Director and 2nd Vice President, and I have attended most of them, I can say with "understandable and consummate modesty" that the Western Mountain Region has the **best,** I repeat, **best** regional conventions. Best technical and informative programs, most good fellowship and rapport, and they are attended by the nicest people.

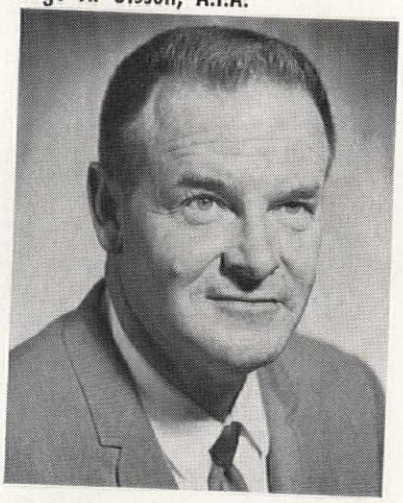
James M. Hunter, F.A.I.A.
Immediate Past Director
Western Mountain Region

(Note: There is a much more recent picture of Mr. Hunter now available—but in memory of the hair he had, and the wrinkles he didn't—and since this is all in the name of history, this probably the way he looked when he threw out that first ball at the first Western Mountain Region's organizational meeting!)

among those present:— THE PRESIDENTS

arizona

Hugo A. Olsson, A.I.A.



As President of the Arizona Society of Architects/AIA, Mr. Olsson is assisted by Vice-President, William Cook (also Regional Secretary) and W. Kirby Lockhard as Secretary. The Society represents the Central Chapter (Phoenix) and the Southern Chapter (Tucson). Mr. Olsson is well qualified having served the Central Arizona Chapter in all offices, including President, over a six-year period.

A graduate of the University of Colorado (B.S. in Architectural-Engineering), he served as a Marine fighter pilot in World War II, participating in the Solomon's (Guadalcanal) campaign. He has practiced architecture in the past as principal and partner in firms bearing his own name, but is currently engaged in developing an architectural/engineering practice as the architect member of A.E. Fergueson and Associates, Inc. of Phoenix. He believes strongly in the integrated team as an opportunity to not only expand the scope of his practice, but to render additional services to his clients.

Mr. Olsson is married—his wife, Alice, is a charming Phoenix girl—and they have three children; Eric (23), Janet (18) and Neil (13). When time permits, Mr. O. golfs, fishes and enjoys "bow-hunting." He is also an enthusiastic photographer, and looks forward to a time when he can work more extensively as an amateur sculptor and artist.

colorado

John D. Anderson, A.I.A.

John Anderson is a "Connecticut Yankee" who has found his own Camelot in the Rocky Mountains—and likes it that way! Born in New Haven, he attended school in his native State and in Pennsylvania before doing his stint for Uncle in the Naval Air Corps. He took his A.B. and Advance Design degrees in Architectural Science at Harvard University. He held two or three jobs as draftsman, designer and job captain for various firms until he opened his own office in Denver in 1960. John claims his specialty for five years was "survival". . . ! (How many young architects have the courage to be so frank?) Since 1965, he has been a principal in the firm of Anderson/Barker/Rinker—a moderate, solid and varied practice. Mr. Anderson is married—he and his wife live in Colorado's foothills with two young teen-age sons . . . in the firm belief that "high country living" is the only way to fly.

John Anderson has already made a significant contribution to the progress of Colorado Chapter/AIA. During his term in office, the Diamond Jubilee Year, he has seen the beginning of many forward steps . . . the opening of permanent headquarters in Larimer Square, the establishment of an Executive Secretary and a definite statement of policy on the involvement and interest of the architect in "The Town Around Us". In all areas of the profession, John Anderson has provided inspiration and support in that most important area . . . "building for tomorrow."

nevada

Walter F. Zick, A.I.A.

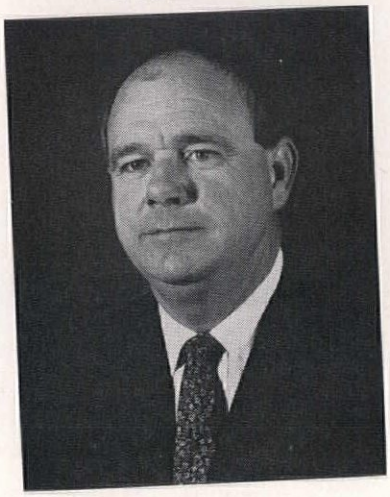
The Nevada contingent of the AIA attending the Western Mountain Region Conference will be headed by President Walter F. Zick. Mr. Z. with Harris P. Sharp (President, Las Vegas/AIA) are the principals in the firm of Zick and Sharp, Architects and Engineers. Their very handsome Las Vegas branch bank appeared in October's Symposia.

A graduate of the School of Architecture, University of Southern California, Mr. Zick practiced in Los Angeles and Pasadena before coming to Las Vegas in 1947. He was the first Secretary of the Nevada State Board of Architecture (1949) and President of the Las Vegas Chapter in 1953. He has been a Corporate member of the Institute since 1944, and for two years served on the Judiciary Committee of the Coastal Region.

Walter Zick is married, the father of two daughters . . . both accomplished horsewomen. His wife, notes Mr. Z., upholds the bridge parties. His hobbies include hunting . . . birds and big game; fishing . . . stream and deep sea, and he builds sporting guns. He is the proud owner of his own twin engine plane which is used for business as well as pleasure. He owns a mountain home in West Yellowstone where, he says, "we fly there frequently to get away from it all." This is certainly . . . "the only way to fly."

Walter Zick has added another star to his crown as far as we are concerned by being a faithful member of Symposia's Editorial Advisory Board bringing to our readers the news from Nevada.

new mexico
Robert G. Mallory, A.I.A.



From the "Hasta la vista" country where Western Mountain Region Architects gathered last year, comes Robert G. Mallory who heads up the New Mexico Society. He is a principal in the architectural/engineering firm of Fergueson, Stevens, Mallory and Pearl of Albuquerque.

A graduate in architecture from the University of Texas, Mr. Mallory has been a corporate member of the American Institute of Architects since 1953, and has served the New Mexico Society in many capacities. He has been a member of the Board of Directors of the Albuquerque Chapter, and has been both Secretary-Treasurer and Vice President of the New Mexico Society.

Mr. Mallory in outlining his aims for the Society during 1967 has emphasized his own interest in a closer cooperation between all members of the "Construction Team." In recent months, he has spear-headed a movement of the Albuquerque Chapter in attempting to implement the award-winning "Albuquerque Downtown" project.

Other officers of the New Mexico Society are: Kenneth S. Clark, Vice President, and Beryl E. Dunham, Secretary-Treasurer.

utah
Frederick Montmorency, A.I.A.

President of the Utah Chapter and already slated for the job of General Chairman for the 1968 Western Mountain Regional Conference, is Frederick Montmorency of Salt Lake City. A native of Utah, Mr. Montmorency attended Weber College and is a graduate of the University of Utah with degrees in both the Fine Arts and Architecture. He did his graduate work at Princeton on a Palmer Fellowship.

During his years of study, he worked for Lawrence Olpin in Ogden, Giegler, Kimball and Husted in New York and John Diehl in Pennsylvania. In 1955, he joined the firm of Ashton, Evans and Brazier in Salt Lake City as Chief Draftsman, and in 1963 became a principal in the architectural firm of Ashton, Brazier, Montmorency and Associates.

In addition to serving as President of the Utah Chapter/AIA in 1966-67, Mr. Montmorency has been a Director of the Pioneer Craft House (since 1964) and is the President of the Bonneville Kiwanis Club.

Mr. Montmorency is married and the father of three children. He personifies the admonition that a professional man should accept civic and community obligations. He works assiduously at a number of civic assignments as well as his duties as President of the Utah Chapter. Mr. Montmorency received the 1963 Distinguished Service Award from the Salt Lake City Junior Chamber of Commerce.

wyoming
Gerald Deines, A.I.A.

"Jerry" Deines of Casper is just completing his second term as President of Wyoming Chapter/AIA. Born in Fort Collins, Colorado, he attended the University of Colorado at Boulder, but obtained his Graduate Degree from the School of Architecture at Utah University in 1957. He has had his own office for the practice of Architecture in Casper since 1961, holds an NCARB Certificate and is registered in Wyoming, South Dakota and Montana.

Mr. D. is an enthusiastic participant and supporter of Wyoming and Casper; he is a past president of the Casper Civitan Club, and past vice-president of the Y.M.C.A. Board. He is married to, and we quote, "A great wife", Shirley and has three children, Leslie (7), Lisa (6) and a little guy, Brad, who is closing in on three months. "Jerry" is a good golfer and bowls well—unlike some of us who would like to trade scores in these two sports —however, it must be said his real hobby is people . . . he has the wonderful quality of making friends wherever he goes.

For almost a year now, he has served as a member of Symposia's Editorial Advisory Board, and has done yoeman service in this capacity. As to his feelings about architecture in Wyoming . . . we could say he is pleased with the existing ratio of supply and demand, and proud of the dedicated people serving the purpose of good architecture there. Like all thoughtful members of his profession, Mr. Deines feels often that the strides are not giant enough or rapid enough to meet his ideals.

abstract of the theme

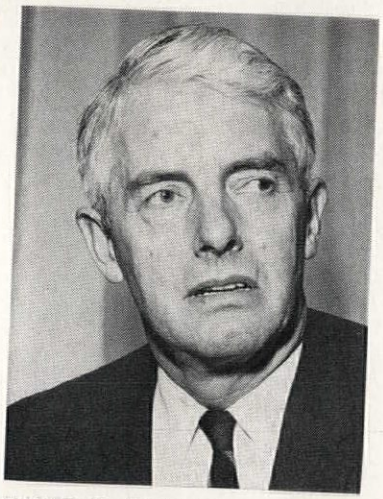
The Architect, by nature, is a protestant. He rebels against the ugliness of his surroundings. He bemoans the desecration of our natural resources, and he curses the uninformed civil officials. In the midst of this decrying, he rarely stops to ask his antagonist if there is some way in which the Architect can be of assistance.

In a period of rapid urban expansion, little use is made of the Architect's talent for creating organized space. Acres of raw land are divided and subdivided into parcels, often with economics as the only rationale. The delineator is usually a person versed only in land measure and road widths.

More often than not the community expands contrary to the natural grade, consuming forests, swamps, and open space without discrimination. In place of the natural system, we create erosion, dust, sewage, uncontrolled runoff, and a multitude of associated problems. The regulations governing urban development are often inadequate and contrary to good planning. Yet the Architect usually declines invitations to participate on Planning Boards, and thinks of the city official only when a commission is in the offing.

While the Architect cries apathy, he overlooks his non-participating attitude. Herein lies the crux of our conference: How can we meaningfully participate in the development of our community?

. . . and honored guests



DAVID R. BROWER
Executive Director, Sierra Club

In January, David Brower was one of the principal speakers at the symposium on "The City" sponsored by Colorado College. Within the year, he returns to Colorado Springs to speak on Tuesday, November 7, to architects of the Western Mountain Region. Mr. Brower is certainly one of the best known and most enthusiastic protagonists of conservation in the United States. He joined the Sierra Club just two years after his graduation from the University of California, and for many years served as a volunteer before becoming its first Executive Director in 1953. Mr. Brower is a member of the National Resources Council of America, the Rachel Carson Trust for the Living Environment . . . active in every major organization devoted to the preservation of America's unspoiled out-of-doors. For eleven years, he was editor of the University of California Press, and served in the 10th Mountain Division of U. S. Army Infantry. In 1965, LIFE magazine described David Brower as "Knight Errant to Nature's Rescue"—and called him America's Number 1 working conservationist.

He is married, and the father of four children—boys, Kenneth, Robert and John, and a daughter, Barbara Anne.

Mr. Brower's philosophy of the co-relation of conservation and the urban environment is best expressed in his own words . . . "The conservation movement is really founded in the urban center. The main protective force for wilderness is the city person who hankers after it. It's part of the geography of hope."

SAMUEL E. HOMSEY, F.A.I.A.
Vice President
The American Institute of Architects

Traditionally, the speaker at the Regional Honor Awards Banquet comes from among the chief officers of the national Institute. The Sixteenth Annual gathering of the Western Mountain Region will be privileged to hear from Mr. Samuel Homsey, FAIA, Vice President from Wilmington, Delaware.

Born in Boston and educated at the Massachusetts Institute of Technology (Bachelor and Masters in Architecture), Mr. Homsey is a principal in the firm of Victorine and Samuel Homsey, Inc., an architectural practice which has been active for almost four decades.

Mr. Homsey has served the Institute in many capacities serving on committees for School Buildings, on Internship, International Relations and the Allied Arts. In 1961-62, he was secretary of the College of Fellows and Chairman of the Jury of Fellows 1964-66. From 1950-57, Samuel Homsey was the Institute's delegate to the Commission on Government and Art, and has also been Chairman of the AIA's National Capitol Committee.

He has been equally involved as an architect and citizen in his own community of Wilmington working with the Delaware State Planning Commission, the Wilmington Board of Park Commissioners, the New Castle County Zoning Commission and the Regional Planning Commission.

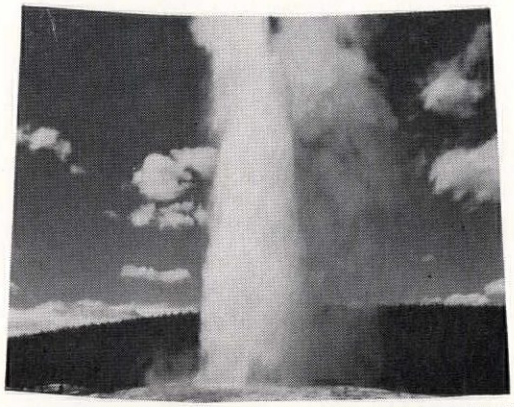
Mr. Homsey's address to his colleagues in the architectural field should prove a challenge and an inspiration to the future of all members of the profession.

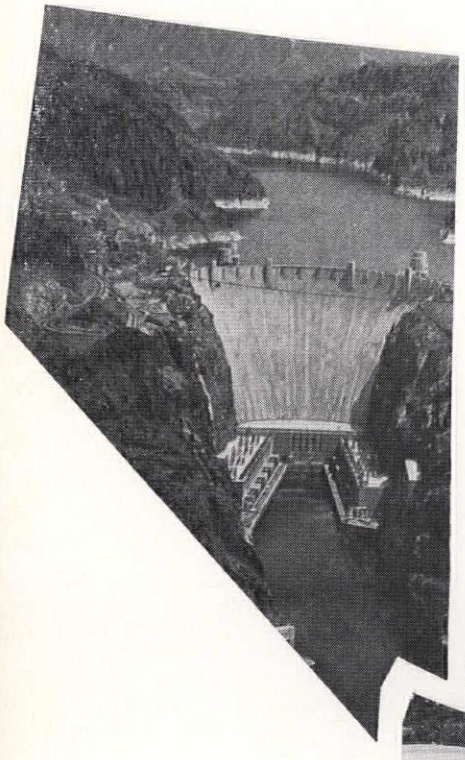
symposia

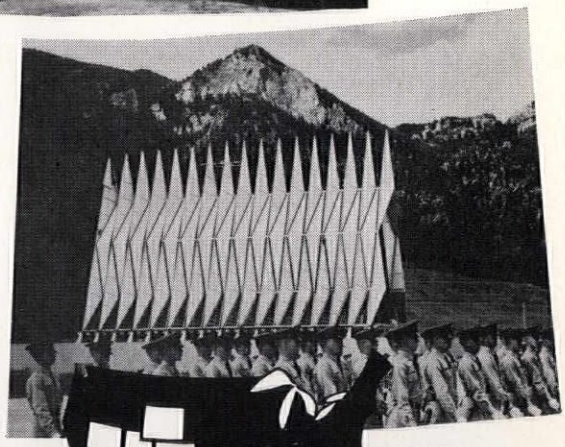
THE PROGRAM

AMERICAN INSTITUTE OF ARCHITECTS/WESTERN MOUNTAIN REGION

THIS IS THE WESTERN MOUNTAIN REGION!
To the north, the jagged Tetons push into fabulous Yellowstone—to the south, the flat, gray-greened "boondocks" hit the Mexican Border. The mighty Sierras lean against our Western reaches, and our dun-colored Eastern plains form a prelude to the Indian's "Shining Mountains." We are a region . . . monolithic . . . diversified . . . beautiful . . . a magnificent challenge!

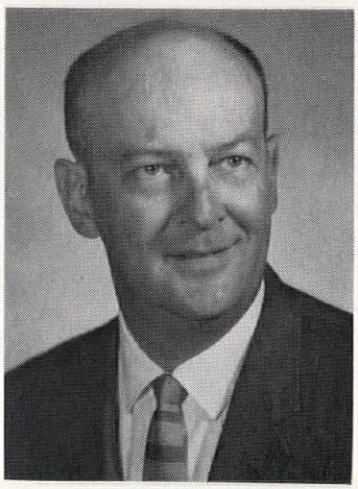






THE TOWN AROUND US

Conference—November 5-8, 1967—Colorado Springs, Colorado



Sherwood F. Ritz, Jr.
President, Southeastern Section
Colorado Chapter/A.I.A.

Several years ago some of us were discussing the late Dag Hammarskjold and his activities. Involved in the discussion was a young architectural student who had been unusually quiet until he asked, "What did he design?"
Quite obviously, his education needed broadening. Many of us are in the same boat, but those who participate in the forthcoming Western Mountain Regional Conference will indeed have their education broadened.
We, in Colorado Springs, are looking forward with great anticipation to greeting you and helping you enjoy our city. Remember:
"Nuestro ogar es su ogar"
"Our home is your home."

MONDAY THROUGH WEDNESDAY

8:00 a.m.- 5:00 p.m.	REGISTRATION	Mezzanine
8:00 a.m.- 5:00 p.m.	PRODUCERS' COUNCIL EXHIBIT	South Side/ International Center
8:00 a.m.- 5:00 p.m.	A.I.A. DISPLAY	South Side/ International Center

when	what	where
SATURDAY/NOVEMBER 4		
6:00- 8:00 p.m.	Post Game Cocktail Party	Oval Room Broadmoor Golf Club (Cash Bar)
SUNDAY/NOVEMBER 5		
2:00- 5:00 p.m.	Registration	Mezzanine
2:00- 4:00 p.m.	Regional Council Meeting	Randall Davy Room
5:00- 7:00 p.m.	Producer's Council Cocktail Party	Terrace Lounge
7:30 p.m.	College Deans Dinner (By Invitation)	Main Dining Room

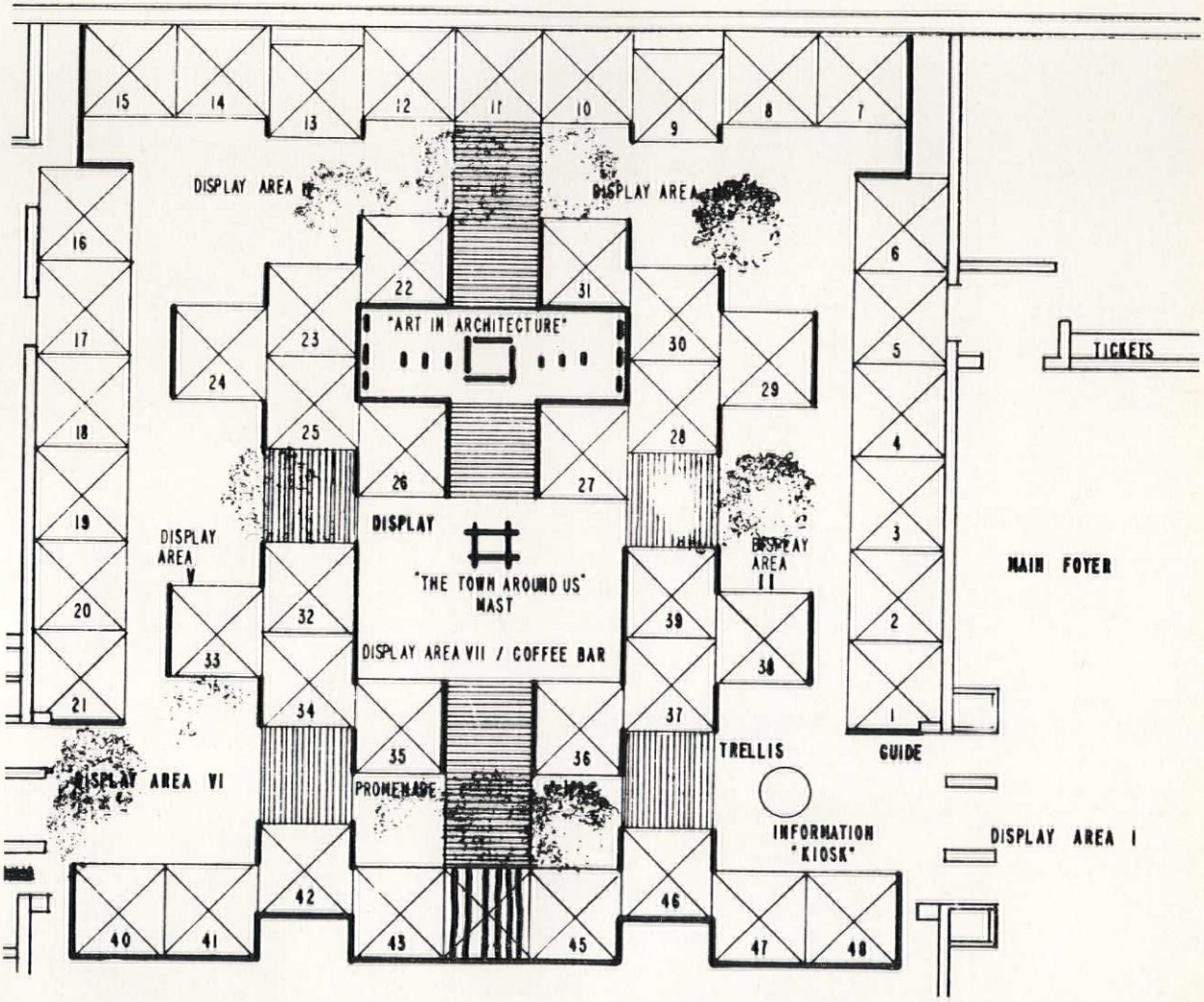
when	what	where
MONDAY/NOVEMBER 6		
7:45 a.m.	College of Fellows Breakfast (By Invitation)	North Lake Room
8:00- 9:00 a.m.	Coffee	South Side/ International Center
9:00-11:00 a.m.	Seminar I Edmund Bacon, Albert Bush-Brown Dean Sidney Little, FAIA	North Side/ International Center
12:00- 2:00 p.m.	Luncheon (A.I.S.C. Award—F. Lamar Kelsey, FAIA)	Main Dining Room **TICKET**
2:00- 4:30 p.m.	The Mini-City Seminar on Campus Planning James Braman, Kenneth Phillips, John Severns	North Side/ International Center
7:00-10:00 p.m.	Architects At Home Dinners (By Invitation)	Local Homes

TUESDAY/NOVEMBER 7		
7:45 a.m.	Symposia Editorial Advisory Board Breakfast (By Invitation)	North Lake Room
8:00- 9:00 a.m.	Coffee	South Side/ International Center
9:00-11:30 a.m.	Seminar II James Finch, FAIA, Ronn Ginn, George Fellows, Fletcher Trunk	North Side/ International Center
12:00- 2:00 p.m.	Luncheon Speaker: David Brower	Main Dining Room **TICKET**
12:00- 2:00 p.m.	Ladies Luncheon Program: Dixie Freudenberg	El Paso Room Antlers Hotel **TICKET**
2:00- 4:00 p.m.	Design Critique (Limited to 60 Corporates) Fargo Gateway Center, Fargo, North Dakota Corbett/Denhert, Jackson, Wyoming Yavapai College, Prescott, Arizona Bennie Gonzales	Green Room **TICKET**
7:00-10:00 p.m.	Awards Banquet Speaker: Samuel Homsey, FAIA Vice President, American Institute of Architects JURORS: (A.I.A. AWARDS) Dr. Albert Bush-Brown James Finch, F.A.I.A. Dean Devon Carlson, Colorado University	Ballroom **TICKET**

WEDNESDAY/NOVEMBER 8		
9:00-10:00 a.m.	Regular Business Meeting	North Lake Room

in the international center —

E exhibit of new products - new concepts
exhibit of honor award architecture



Booth	Exhibitor
1.	P. P. G. Industries
2.	Pella Products of Colorado, Inc.
3.	Robinson Brick & Tile Company
4.	Johns-Manville Sales Corporation
5.	Townsend Paneling, Inc.
6.	Georgia-Pacific Corporation
7. & 8.	Dahl Sales, Inc.
9.	Nelson-Cato Distributing Company
10.	Zonolite Division, W. R. Grace & Company
11.	Carthage Marble Corporation
12.	Danlite, Inc.
13.	Johnson Hardware
14.	Charles L. Binna Associates
15.	Ruberoid Corporation
16.	Mack Marble & Tile Company
17. & 18.	Richards-Wilcox Division, Hupp Corporation
19.	Bradley Washfountain Company
20.	Protex Industries, Inc.
21.	Libbey-Owens-Ford Glass Company
22.	H. H. Robertson Company
23.	Commercial Carpet Company

Booth	Exhibitor
24. & 25.	Construction Specialties Company
26.	Behlen Manufacturing Company
27. & 28.	Buehner Schokbeton Company
29.	United States Ceramic Tile Company
30.	Wepco
31.	Colorado Concrete Masonry Association
32.	Owens-Corning Fiberglas Corporation
33.	Overhead Door Company of Denver
34.	Formica Corporation
35.	Armstrong Cork Company
36.	U. S. Plywood—Champion Papers, Inc.
37.	American Air Filter Company, Inc.
38.	Day-Brite Lighting, Inc.
39.	Spectra-Glaze (Merrick-Heap)
40. & 41.	Weyerhaeuser Company
42.	American School Supply
43.	Brick, Inc.
45.	General Building Service
47.	Styro Products, Inc.
48.	Andersen Window Well

"So, to begin with, man needs a dwelling and a town. The dwelling and the town will result from the spirit of today, the modern spirit, the irresistible force, overflowing and uncontrollable now, but derived from the slow efforts of our forefathers."
Le Corbusier—"Urbanisme"

ALBERT BUSH-BROWN

It would seem the Western Mountain Region/AIA Conference is specializing in "Connecticut Yankees" this 16th time around. Dr. Bush-Brown reports New Hartford as his birthplace. A distinguished academic career is already behind this President of the Rhode Island School of Design, his many degrees and honors seem incredible when you consider he is just barely on the shady side of forty.

Educated at the Germantown Friends School in Philadelphia, he received his A.B. (Philosophy) from Princeton in 1947, his M.F.A. in Art and Archaeology in 1949, and his Doctorate from Princeton in 1958. Dr. Bush-Brown served as an instructor in Art and Archaeology at Princeton, as Lowell Lecturer in Boston in 1952, as Assistant Professor at Western Reserve University, and became an assistant Professor of Architecture at the Massachusetts Institute of Technology from 1954-58, at which time he became an Associate Professor and Executive Officer of the School of Architecture. He has been President of the Rhode Island School of Design since 1962.

Dr. Bush-Brown has traveled widely in Europe, North and South America, in North Africa and the Near East. Among his many degrees and honors, he became an honorary member of the Rhode Island Chapter, American Institute of Architects in 1966.

His wife, Frances, is a native of Massachusetts, and they have four children — David, who is 17; 13-year-old twins, Frances and Lesley, and 3-year-old Martha.

His various memberships are legion and vary from the Rhode Island Historical Society to the National Council on the Arts. Dr. Bush-Brown is the author of "Louis Sullivan" and "The Architecture of America: A Social Interpretation," and many other published articles and monographs on Art, Architecture, Archeology and associated fields of interest.

It is a great privilege to have Dr. Bush-Brown at the Western Mountain Regional Conference, and he will certainly bring an erudite analysis of the urban problem and its solutions to those in attendance.

SEMINAR I

EDMUND N. BACON, A.I.A./A.I.P.

For almost two decades, the term "city planning" and Edmund N. Bacon have become increasingly synonymous. Mr. Bacon, since 1949, has been the executive director of the Philadelphia City Planning Commission, where he has demonstrated his considerable talents in bringing an urban renaissance to his native city. He has, through the preservation of the many historic landmarks in this "cradle of American liberty," by the addition of vital new architecture, and by "opening-up" of the city, recaptured much of founder William Penn's dream of a "greene countrie towne."

Mr. Bacon is a graduate in architecture from Cornell University, and studied at the Cranbrook Academy of Art under Eliel Saarinen. He is widely traveled throughout much of the world, and in fact, worked as a designer under Henry Killam Murphy in Shanghai. In addition to his work in Philadelphia, Mr. Bacon was for two years City Planner for Flint, Michigan. His work has been featured in many national magazines both architectural and general interest.

In addition to his work as City Planner, Mr. Bacon is a visiting lecturer at the University of Pennsylvania, a Trustee of the American Academy in Rome, and on the Advisory Council of the School of Architecture at Princeton. He has served as Professional Advisor for the Franklin Delano Roosevelt Memorial Competition and on the Task Force for the Potomac River Basin Plan and many other activities. Mr. Bacon is married and the father of six children. He has authored the exceptionally fine book, "The Design of Cities," the result of a Rockefeller Foundation Award.

His philosophy of urban planning is best told by quoting from this volume . . . "These two elements, the architecture of movement and the architecture of repose, make up the city as a work of art, and this is the people's art. The product of city-design can be experienced by anyone, without qualification, on an equal basis. It could become a great democratic statement of the life we share in common. The test of our achievement is whether we are able to break away from our fragmented approach to this problem and begin to see the city as a whole, dealing with it as a complete organism."

DEAN SIDNEY W. LITTLE, F.A.I.A.

Dean Little, F.A.I.A., is the third panel member of the initial seminar on "The Town Around Us." His picture appears with his editorial comments written especially for November's "Elevation." He is Director of the Western Mountain Region/AIA, and is the Dean of the College of Architecture at Arizona University at Tucson.

A native of Buffalo, his Bachelor of Architecture is from Cornell, his Master's from Tulane, and he studied at both the University of Pennsylvania and the Ecole des Beaux Arts at Fontainebleau. During his teaching career, he has served at Clemson College, Auburn University, the University of Oregon and, of course, Arizona University. Long active in Institute affairs, Dean Little was a member of the AIA Survey Commission for the profession, and was one of the co-authors of "The Architect at Mid-Century." He was responsible for many of the educational recommendations now being implemented by the Institute and the A.C.S.A.

Dean Little will discuss the quality of today's architectural education—and the emerging role of the practicing architect of the future.

CAMPUS PLANNING

> Universities are to our time what the monasteries were to the Middle Ages. They are oases in our desert-like civilization. They also have about the only beautiful pedestrian spaces that are left to us. And it may turn out that they have our only permanent architecture.
> Eero Saarenin (Architectural Record/November 1960)

JOHN E. SEVERNS, A.I.A.

John Severns is a principal in the architectural firm of Richardson, Severns, Scheeler, Associates, Inc. of Champaign, Illinois and Washington, D.C. and well known as a designer, critic and consultant. He holds both bachelor and master's degrees in Architectural Engineering from the University of Illinois, and continues to serve the University as Visiting Critic for the Graduate School, Department of Architecture, and the Department of City Planning and Landscape Architecture.

Mr. Severns holds a certificate from the National Council of Architectural Registration Boards and is licensed to practice in ten of these United States. A Vice President of the Society for College and University Planners, he has been a featured participant in the "Architecture and the College" Conference held in 1965 at the University of Illinois, and in 1966, participated in the Architectural Sales Representative Institute, Producers' Council/University of Illinois.

Currently engaged in master-planning the Campus of a private college in the Colorado Springs area, Mr. Severns should prove a most informative speaker.

DR. KENNETH PHILLIPS

Dr. Kenneth Phillips is the President of the new Metropolitan State College located in Denver, Colorado, and in this position is presently deeply involved in the planning of a college campus in an urban environment. He is the former Executive Dean of California State College, a B.S. Graduate from New York State University at Buffalo with his Master's and Ph.D. from Ohio State.

With a wide interest in community and educational matters, he has authored many articles, bulletins and major sections of several books. He has served as a consultant for many school districts, and acts as a visiting graduate professor. He is Past President of the Faculty Association and Past State President of the Association of California State College Professors.

From swimming and diving coach, Boys and Girls Camping Committees and United Fund Work, Dr. Phillips many abilities also include Advisor for Educational Television, and the establishment of a quality control system for a jet engine parts plant. He is well known as a speaker at national conventions, meetings and service clubs.

Personable James D. Braman, Director of Planning for the City and County of Denver, was born in Bremerton, Washington, and is a Magna Cum Laude graduate in Civil Engineering from the University of Washington. Following graduation, he served as a Captain in the Transportation Corps/U. S. Armed Services in New Guinea, the Philippines and Alaska. In 1952, he received his Master of Science in Regional Planning from Washington University. For a decade, he worked for the Seattle Planning Commission advancing from Planners Aide to Senior Land Planner in charge of the Advance Plans Section.

In 1960, he came to Denver as Assistant Director of Planning, taking over the Director's position in May of 1962. Under his guidance, Denver has prepared an unusually fine Master Plan which encompasses the next quarter century.

Mr. Braman is a member of the American Institute of Planners, and lives in Denver with his wife, and family of two daughters and one son.

JAMES D. BRAMAN, JR./A.I.P.

SEMINAR II

GEORGE H. FELLOWS

City Manager/City of Colorado Springs

A probing inquiry into the architect's position relative to the municipality will bring Colorado Springs City Manager, George H. Fellows, to the speaker's microphone during the Second Seminar on "The Town Around Us." Mr. Fellows has had better than two decades of municipal experience and is well qualified to delineate the role of the architect and his services in the effective development of the urban environment.

Mr. Fellows is a native of Fort Dodge, Iowa, and graduated in 1944 with a Civil Engineering Degree from Iowa State College at Ames. He worked as City Engineer and Assistant City Engineer in Spencer and Waterloo, Iowa.

Mr. Fellows came to Colorado in the capacity of Director of Public Works in Greeley, Colorado, and served in the same position in Pueblo. From 1960-1966, he was City Manager of Pueblo, during which time he participated in laying the groundwork for the extensive Regional Plan for this area. He became City Manager of Colorado Springs in 1966.

George Fellows was a member of the Pueblo City Planning and Zoning Commission for nine years, and is a member of the International City Managers' Association.

JAMES H. FINCH, F.A.I.A.

James Finch, F.A.I.A., brings to the Western Mountain Region Conference the viewpoint of the working architect who is totally committed to the improvement of the urban environment and to the increasing importance of the architect's role in the life of the community. Mr. Finch is a principal in the firm of Finch, Alexander, Barnes, Rothschild & Paschal of Atlanta, Georgia, a Colonel in the United States Marine Corps Reserves, Chairman of the Georgia Art Commission and was recently presented with an award by the "Atlanta Beautiful Commission." A graduate of Georgia Tech with B.S. in Architecture, Mr. Finch did graduate study at Princeton, and has received numerous architectural citations. He has won the Illuminating Engineering Society Prize, the Princeton Prize, the Gold Medal of the Societes Des Architects Diplome par le Gouvernment Francais, and he was a finalist in prize competitions in both Paris and Rome. Named by TIME Magazine as one of the "One Hundred Leaders of Tomorrow," he sets the pace and shapes the destiny of all he encounters.

Mr. Finch is a devoted family man with a talented and lovely wife (an accomplished ballerina), and two daughters. He has all the natural and unaffected charm which is epitomized in the term . . . "Southern gentleman." It will be his task as panelist in the Second Semiinar to summarize the meaningful application of the architect's abilities in "The Town Around Us."

FLETCHER B. TRUNK
Publisher/Symposia

Mr. Trunk, as a representative of the professional press, will appear as a panelist on the Seminar II program to assess the value of communications at the professional level.

He has been intimately associated with the architecture/construction community since 1951, and for many years was Advertising Manager, in Denver, for the F. W. Dodge Corporation. In 1966, Mr. Trunk left the Dodge organization to publish Symposia based on his deep conviction that a means of communication should be provided all segments of the Construction Industry and the Construction Public.

Born in Denver, the son of pioneer stock, Mr. Trunk was educated at the University of Colorado, and has long been active in many professional and community organizations. He is a life member of the Spike Club (National Association of Home Builders), and has been active in the Association of Industrial Advertisers, Denver Sales Executives, Kiwanis, and in 1967 received the Building Industry's Honorary "Man of the Year" Award.

He is married, the father of three daughters: Alice, Katherine and Frances. Mr. Trunk has a sincere and abiding interest in the Western Mountain Region and the role of the architecture/construction community in its future.

RONN GINN, A.I.A.
Urban Design Specialist
Model Cities Administration
Department of Housing and Urban Development

Ronn Ginn is no stranger to his fellow architects in the Western Mountain Region. Those who attended the 15th Annual Convention last year in Santa Fe, New Mexico, will remember him as the recipient of the AIA Citation for Excellence in Community Architecture for his plan for Albuquerque Downtown. Prior to joining HUD in February of this year, Ronn was in private practice in Albuquerque as an architect, urban designer and landscape architect with Art Dekker, AIA. In addition to the Albuquerque Downtown Project, he was also in charge of redesigning the central business district in Roswell, New Mexico.

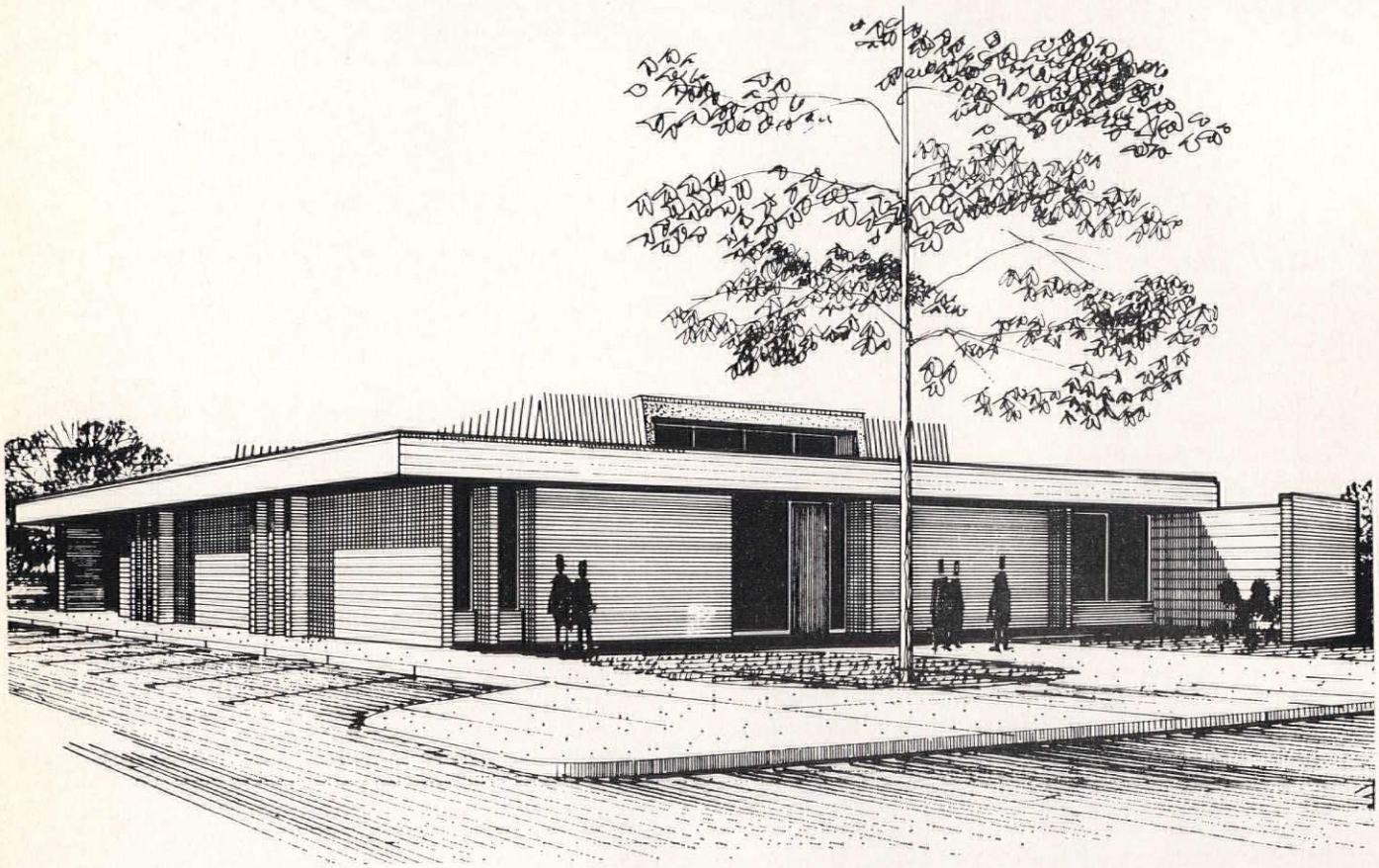
A native of Florida, Ronn Ginn attended the University of Florida at Gainesville, graduating with two professional degrees. Following his graduate study, he and his wife, Jan, spent a year in Europe in travel, observation and study. He is presently working toward his doctorate in Design at George Washington University.

In the October issue of Symposia, Mr. Ginn outlined very briefly his regional concept in the article "Crescent of the Rockies." In writing Mr. John Ten Eyck, Chairman of the Conference, Mr. Ginn has said: "Your request that I speak of the Federal Government's role in urban development as it relates to design, and the architect's role in the comprehensive design of our urban areas is apropos because the underlying theme of my duties here in the Model Cities Administration is to develop and implement just such a program. The topic of my discussion, 'The Chance to Demonstrate.' "

Colorado Springs Students to Tour Exhibits

Arrangements have been made for many Junior and Senior High School students in the Colorado Springs Region to tour the Exhibit Area in the International Center on Tuesday afternoon, November 7. Don Green, Director of the Arts and Humanities Educational Program and Robert Sheets, Coordinator, have headed up the Tour Program which will enable young people interested in architecture to view both the Producer's Council Product Exhibits and the Honor Awards Program entries. Students participating will come from schools in Colorado Springs, Security, Harrison, Cheyenne Mountain, Manitou Springs and the Air Academy Districts as well as Rehabilitation and Private schools in the area.

TOWN HALL
PALISADE, COLORADO



architects:	Hightower Chambliss, Grand Junction, Colorado
engineers:	
structural:	Vern Winkel, P.E., Denver, Colorado
mechanical:	Jim Burke, P.E., Grand Junction, Colorado
electrical:	Sol Flax, Consulting Engineers, Denver, Colorado
general contractor:	E. C. Huff Construction Company, Grand Junction, Colorado
the cost:	$93,470.00
approximate completion date:	November 15, 1967

not exactly ECSTASY—but it reduces the AGONY!

(being a synopsis of the advancement of the CSI Format and the Uniform System for Construction Specifications)

by R. James Noone, CSI/AIA

The agony which once accompanied the obligation to write the Specs is now in the past. We are no longer faced with this affliction. While it has not exactly turned into an ecstatic experience, it has presented an interesting challenge to the "concert-master" of contract documents. To a large degree this is due to the development of the CSI Format for Construction Specifications, and its subsequent inclusion in the UNIFORM SYSTEM as developed by the Joint Industry Conference. It has been copyrighted and is also endorsed by the Construction Specifications Institute (CSI), The American Institute of Architects (AIA), American Society of Landscape Architects (ASLA), The Association of General Contractors of America (AGC), The Producers' Council, Inc. (PC), The National Society of Professional Engineers, (NSPE) and the Council of Mechanical Specialty Contracting Industries (CMSCI).

With the valid organization of this myriad of detail into a rational, structural framework, the relationship of the various parts to the whole became apparent. There is now something exquisite about making these several parts dovetail into a workable set of contract defining documents, with each part reinforcing the others.

Adoption of the Uniform System includes the arrangement of Cost-Accounting practices (for the General Contractors), and of the Data Filing/Retrieval (for the Architects and Suppliers) and of the Specification volume proper into a single consistent operation. The fantastic degree of acceptance of this format arrangement by public agencies, private practitioners and material manufacturers testifies to the great demand that prevailed, prior to its development. It is one more manifestation of the latent power contained in "an idea whose time has come". It's overwhelming.

Much of the acceptance has been earnest with a noticeable effort to learn more about this magical word, "FORMAT". We in the CSI are almost apologetic about showing how simple and effective it is for all to use. The sixteen division technical part (Part IV) of the Format is even philosophically beautiful. "Why didn't someone think of this before?", is a reaction heard frequently.

A clear example of an additional value that accrues to the user of the Format has to do with the obvious importance of the other three distinct parts of the document. They are:

Part I Bidding Requirements
Part II Contract Forms
Part III General & Supplementary General Conditions.

Their precise requirements clear the air in the formerly nebulous areas of "Instructions to Bidders", "Special Conditions", Bid Forms", "Contracts and Bonds", etc. It's quite an achievement to arrange the old discordant notes into harmonious concert.

Another surprising benefit comes when one realizes one's tactical decisions in planning the building become more sound because of the broader grasp of the total picture. One will remember to show and describe the work accurately which applies to "Separate Contracts", for example. Also, an understanding of the relationship beween the General and Sub-Contractors suggests the proper way to handle Changes-in-the-Work. By studying the Contract Documents, these and many other old problems are converted into rational solutions.

Briefly, the organization of the Format is this: a quiet and logical expression of the several activities required to bid upon and ultimately construct the work under contract. Look at this summary and note the reasonable breakdown of elements.

PART I BIDDING REQUIREMENTS:
(Advertisement, Bidding Instructions, Proposal Form)

PART II CONTRACT FORMS:
(Specimen Contract Forms, Bond Forms)

PART III GENERAL & SUPPLEMENTARY GENERAL CONDITIONS: (Conditions that describe the construction atmosphere and overhead items of the project during the contract period.)

PART IV TECHNICAL SPECIFICATIONS:
This is the magical breakdown of the 16 Divisions that some feel is the entire story of the CSI. As pointed out before, it rather serves to point out the importance of the three other concurrent parts. The 16 Divisions are as follows:

DIVISION ONE—GENERAL REQUIREMENTS: Description of the administration facilities maintained on the project for the benefit of all involved. (Temp. Facil., Staging, Allowances, Shop Drawings)

DIVISION TWO—SITE WORK: Construction work on the site outside of the building proper, but within the scope of the construction contract. (Blacktop, Fences, Grading, Demolition, Excavation)

DIVISION THREE—CONCRETE: By itself, because of its complexity and inclusion in most projects. (Form, mix, cure, finish, reinforcing, test, precast)

DIVISION FOUR—MASONRY: Isolated because of its frequent usage to define the space ENCLOSURES. (Brick, Block, Mortar, Stone, Veneers)

DIVISION FIVE — METALS: STRUCTURAL & MISC. Often the structural cage. Work performed by a specialized trade. (Ornamental, Railings, Structural, Decking, Joists)

DIVISION SIX—CARPENTRY: The woodworking that is not attendant to other Divisions' work. (Lumber, Millwork, Glulams, Timber)

DIVISION SEVEN — MOISTURE PROTECTION: The membrane envelope protecting the building. (Waterproofing, Roofing, Caulking, Sheet Metal)

DIVISION EIGHT—DOORS, WINDOWS, GLASS: The openings in the walls. (Doors, Windows. Hardware, Curtain Wall, Store Front, Glass and Plastics)

DIVISION NINE—FINISHES: The visible veneers applied to other work. (Acoustic, Resilient, Fabric, Paint, Plaster, Tile)

DIVISION TEN—SPECIALTIES: Factory-finished items for installation. (Chalkboards, Accessories, Partitions, Lockers)

DIVISION ELEVEN—EQUIPMENT: Operating manufactured items for inclusion in the building operation. (Laboratory, Food Service and Theater Equipment.)

DIVISION TWELVE—FURNISHINGS: Portable, custom made for inclusion. (Drapery, Fixtures, Sculpture, Seating)

DIVISION THIRTEEN — SPECIAL CONSTRUCTION: Single responsibility for complex system. (Swimming Pools, Bowling Alleys, Integrated Ceilings)

DIVISION FOURTEEN— CONVEYING SYSTEMS: Moving systems within the project. (Elevators, Conveyors, Lifts, Pneumatic Tube)

DIVISION FIFTEEN—MECHANICAL: Mechanical Energy technical specialty. (Plumbing, Heating, Air Conditioning, Refrigeration)

DIVISION SIXTEEN— ELECTRICAL: Electrical Energy technical specialty. (Power, Distribution, Lighting, Communication)

Using this convenient arrangement of the document structure, it has become easy to develop improvements in the various specific items within the structure. The National CSI has developed recommended guides in several areas of concern. To date, these CSI Green-Sheets have covered topics from "Bidding Requirements" through "Scope Paragraphs", "Addenda", "Procedures", "Language", "Ceramic Tile", "Plastics", and others totaling more than thirty. They are available in the CSI Manual of Practice, or separately from the National CSI office.

Another area fertile for development dealt with the quality of product literature. All specifiers know the difficulties in comparing the quality of "equal" materials from promotional literature. (Advertising copy writers being inventive and adventurous.) The CSI and PC developed a form for technical data presentation by manufacturers. The form is comparative, describing product limitations, availability, guaranties and relative costs. Known as the SPEC-DATA program, it has been used by Plywood, Door, Caulking, Hardware and Mechanical Equipment manufacturers (and others), to describe their products to a technical audience. Another "kudo" to the CSI for bothering with this problem.

Within a list of achievements such as these in the brief history of the organization, there is every reason to understand the enthusiasm of the CSI members and participants. In Denver, the local chapter has benefitted from leadership that continues to probe into the morass of problems that remain in the construction industry. Our annual Workshop/Seminars are growing each year. The development of a local "Procedure Manual" is proceeding and will be forthcoming next year. We are participating in the ABC sponsored Construction Management course through the Denver Opportunity School. Also, we are preparing a Green-Sheet study on Passenger Elevators for the national CSI.

Continued growth of the CSI membership and effectiveness is inevitable. Present national membership stands at ninety-five chapters with some ten thousand Architects, Specifiers, Contractors and Suppliers as members. Having this number of "consultants" available to address themselves to specific questions, is it any wonder that the organized efforts are so effective?

Besides, it's ALMOST ecstasy.

Say What You Mean

by—Joseph McQuillan

(Symposia is indebted to Mr. E. Vernon Konkel, CEC/ Colorado and a member of our Editorial Advisory Board who, with the assistance of Rollo E. Jacobs, Jr. (Steel, Jacobs and Gardner) has brought to us another fine article on the subject of indemnification. Written by Mr. Joseph McQuillan of the engineering firm of Bayha, Weir and Finato, Inc., San Francisco, Mr. McQuillan has touched on points of critical interest for architects and engineers in today's private practice.)

An electrical engineer told me recently that if an engineer couldn't guarantee the results of his work he wasn't much of an engineer.

On the surface this might seem like a fair statement. But there are some basic difficulties which are worth examining.

One even might feel inclined to put that type of guarantee in writing in a contract and to believe that it is an accurate expression of the legal duties of an electrical consulting engineer. This is far from true.

There are several reasons why. One is that between the design concept and the "result" lie the product specified and its manufacturer. No one can doubt that the electrical engineer's design includes the particular product specified, for example, a lighting fixture, listed by model number, and including the manufacturer, type and size of lamp to be used in the lighting fixture. But if the lighting fixture does not perform in accordance with the manufacturer's assurance or catalog data, the necessary "result" is not achieved. Should the electrical consulting engineer be held liable for this type of "design error"? Logic demands that the manufacturer bear this burden having misled the engineer as well as the owner.

The majority rule in the courts of law of the U.S. is that a manufacturer who places a product in the market place warrants that the product is merchantable and fit for the purpose intended. The reasoning behind this rule is, briefly, that as between the purchaser and the manufacturer, the latter has the better opportunity to determine the suitability of the product for use intended. Of the two, regardless of absence of fault, the manufacturer is in a far better position to bear the risk of failure of performance of the product.

In today's mad scramble to search for someone to sue who has money, the injured party's attorney often joins the engineer in the suit as a defendant and uses our electrical engineer's initial statement in a manner far different than the engineer intended.

What then did our electrical engineer friend mean? He may have meant that he, being a professional, feels a responsibility to perform his work in such a manner that, should the product perform as specified, and should the contractors installing the product specified do their work properly, the final result will be satisfactory to the owner who will use the facility. This is and should be the goal of every conscientious, ethical, professional consulting engineer. Each professional has ethical obligations. This concern with ethics and obligations is really what separates the professional from the lay businessman who may be concerned primarily with profit.

The scope of a professional engineer's **legal** duties and responsibilities do **not include** all the ethical and **moral** duties and obligations listed in various canons of ethics.

One may say, "Well, why are legal and moral duties not one and the same?" The answer lies in the historical development of the common law; i.e., the courts of law dealt only with legal matters, and the ecclesiastical courts dealt with matters of moral or ethical significance.

But we ar straying from the subject. If our electrical engineer's statement, that "he should guarantee the results of his work," is not the **legal** definition of his duties and responsibilities, just what **is** the legal definition? What do the courts use as a standard for conduct of a professional engineer? It is this: The law requires a professional engineer to possess the skill and learning which is possessed by the average member of the profession in the community and to apply that skill and learning with ordinary reasonable care. He is not liable for mere errors in judgment, provided he does what he thinks is best after a careful examination of the circumstances. He does **not** guarantee a good result, **but** he does promise by implication to use the skill and learning of the average professional engineer, to exercise reasonable care, and to exert his best judgment in the effort to bring about a good result.

Some courts may use loose language to the effect that a professional engineer owes a duty to the party retaining his services to exercise his **best** care, skill and ability. This is illogical and the application of such a rule would produce ridiculous results because in practice no professional can be at his **very best** at **all** times. He, of course, must at least achieve the average as often and as continuously as he can.

Conclusion:

It is **not** dereliction of duty for an engineer to refuse to guarantee the results of his work. True it may be looked upon as a laudable attitude to take and a magnificent gesture to make in an effort to protect an owner's interests, but it is a Pandora's box also.

An engineer who does guarantee a result is making what he believes is his **moral** obligation, his legal obligation also. Most engineers who would do so almost certainly do not realize the burden they assume.

The courts in today's legal climate are all too quick to read much more into our engineer's statement than he ever intended when he said it.

One court in California has already accepted some ingenious Plaintiff's attorney's argument that in effect every engineer who produces a set of plans and specifications impliedly warrants that they are perfect; that if he doubts the performance capabilities of a product he specifies he should test it before specifying it because if it is used and does not perform he assumes the same burden that the manufacturer bears; that the engineer is liable for failure of performance of a product he includes in his design.

Our engineer in his praise-worthy efforts to do his best at all times falls into the trap of being an insurer without realizing the legal consequences to himself and in turn to the entire engineering profession.

If reputable engineers are made aware of their ordinary legal duties and responsibilities, the trend of today's courts to make them **strictly** liable for **any** consequences of their work and to make them **self insurers,** can be slowed and perhaps halted.

Unless consulting engineers are made to comprehend the risks they assume when undertaking each project, the prospects of the future of all of them are dim.

The alternative is to see consulting engineering firms disappear, especially the smaller ones.

Architects/Engineers Call Joint Conference

A special national conference for the purpose of "FACING THE UNION PROBLEM" has been called by the architectural and engineering professions for December 1, 1967 at the La Salle Hotel in Chicago. Co-sponsors include: American Institute of Architects, American Congress for Surveying and Mapping, American Society of Civil Engineers, Consulting Engineers Council/U.S.A., National Council for Photogrammetry and the Professional Engineers in Private Practice Section of NSPE.

Purpose of the all-day meeting is to alert architects, consulting engineers, surveyors and engineering technicians to the current surge of union interest in organizing field crews, draftsmen and inspectors. Teamsters are reported as having contracts with nearly twenty engineering firms in Michigan and Missouri. Operating Engineers have signed labor agreements with a dozen A-E firms in New York. Plumbers, Auto Workers, Electricians, AFTE and other unions are actively promoting collective bargaining among employees of architects and engineers in Florida, Illinois, Pennsylvania, Mississippi, Ohio, Washington and various other states.

Included in the Chicago conference program will be detailed case histories by four A-E's who have actually undergone union organizing drives. A comprehensive outline of do's and don'ts for firm owners will be supplied by Fred N. Daugherty, Chicago, and Harry H. Rains, New York, two of the nation's outstanding labor attorneys. Suggestions for positive and joint counteraction will be presented by representatives of two A-E organizations formed in response to union activities. All discussions will be based upon practical experiences.

Co-Chairmen of the national conference are Charles Meurer of Meurer, Serafini and Meurer in Denver, and Louis A. Bacon, P&W Engineers, Inc. in Chicago. The conference is open to all architects, engineers or surveyors regardless of their affiliation, or lack of affiliation, with any of the sponsoring organizations.

Commenting on the conference, Bacon noted that architectural and engineering concern over inroads by union organizers is not based upon opposition to labor but upon the incompatibility of professionalism and unionism. Said Bacon, "Individual responsibility, independent judgment and devotion to client interests are contrary to the regimentation fundamentally inherent in collective bargaining. This is evident in union reliance upon threats, bluffs, and other tactics to stampede engineers and architects to labor's fold. Our Societies believe the time for professional silence on this matter is past."

Architects or engineers interested in "Facing the Union Problem" at the December 1 meeting may preregister with the Joint A-E Conference Committee by writing: Louis A. Bacon, 309 West Jackson Boulevard, Chicago, Illinois 60606.

EUGENE B. WAGGONER
Newly-elected President
Woodward-Clyde-Sherard & Associates

William A. Clevenger, Executive Vice-President of Woodward-Clyde-Sherard and Associates, and Managing Partner of the Denver Engineering Office announced in October, the election of Eugene B. Waggoner of Denver as president of the nationwide soil and foundation engineering firm.

Mr. Waggoner, his lovely wife, Winnie, and the family will be moving to San Francisco—but as Gene has remarked, "That's just two hours from Denver." He will continue to be available to clients in the area for consultation.

Gene is the immediate Past President of the Consulting Engineers Council/USA. His election as President of the Woodward-Clyde-Sherard firm climaxes a long and distinguished career in engineering.

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arizona report

Frederick P. Weaver, FAIA
Phoenix, Arizona

New Advisory Board

The City of Phoenix Council met in the Council Chambers at 7:30 p.m. October 16, 1967, to review and discuss a new Advisory Board for recommendations involving Building Code, decisions on interpretations by the Building Superintendent or his personnel, consideration of new materials, etc. This Board will have the more palatable title of "Building and Safety Advisory Board." It is proposed that the Board will have nine members — if you think that's bad, they started with 15. It's a nice little ordinance all ready for everyone to say "yes" to, but what it really means is that nine people selected from the professions and building industry will listen to all the facts and discussions concerning appeals from decisions of the Building Inspections Superintendent, and then, if they can't agree with the Building Superintendent they must appeal to the Council for their decision. The Board may also submit to the Building Inspections Superintendent recommendations pertaining to building, plumbing, mechanical and electrical codes, or ordinance provisions and recommendations. The duties and powers of the Board shall be in an advisory capacity only. The old Appeals Board could make decisions and it is being disbanded because it was felt certain members might have a conflict of interests, and therefore should not be able to make decisions. The new Board Members must not participate in any action which might involve them in a conflict of interest. The ordinance doesn't explain how it is possible to select 9 people from the professions and building industry that would be worth their "salt" and not have some conflict of interest, or how elected officials are less apt to have such a conflict.

Honor Awards Program

The Honor Awards Program is all over—and probably it's a good thing, if after four years of effort—1963 to 1967—we can't get more support from the many offices doing business in Phoenix—17 architectural firms submitted — and better submittals, we ought to re-evaluate the whole program. To the award winners, "Congratulations," and to the other firms submitting it should be a profound "thanks," but on with the show itself, and show it was — practically one man—Bennie Gonzales with top Honor Award. Bennie submitted 5 projects on 11 matts—the whole show had only 29 project submittals on approximately 52 matts. Gonzales won first Honor Award for the Los Cuatros Apartments in Scottsdale, Arizona, an Award for a branch library in Phoenix and a small Junior High School in Eloy, Arizona, as well as a mention for remodeling of Litchfield Park Core Development.

Other award winners included Calvin Straub and Dennis Kutch for a residence and Varney, Sexton, Sydnor Associate Architects, for the Glendale Junior College. Mentions were received by Pierson, Miller & Ware for Scottsdale's Saguaro High School, Straub and Kutch for another residence and Guirey, Srnka and Arnold for a Planetary Research Building at Flagstaff. I know one is supposed to say that everything was beautiful and successful, but in this writer's opinion the show was less than impressive and the exhibits erected with a considerable display of amateurism. Some projects were so positioned that the matts were visually separated and they could not be adequately judged or properly identified. Large projects were in most cases grouped and likewise with small projects. It looked like the big commission projects were one team batting against the smaller commission projects and the smaller commissions won. While one is not supposed to quarrel with the judges, I believe more fair results might occur where there is no possible identity, or at best a very minimum, of the projects or architects, by the judges. This just isn't possible when two out of five judges live in the same town or metropolitan area, and one of the others within a two hour driving time.

Finally, there should be a requirement in programs for submittals of projects, that if night time photographs are used at least one daytime shot of the exterior should be required so one can get an honest appraisal of the appearance. Others will write of the success of the recent awards program. I happen to believe that some earned criticism will be better for future awards programs.

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A BIG drink for petite Doris Proett! Denver P.C. President helps his wife sip from the newest Silver Bowl at the Annual Producers' Council meeting in Houston.

DENVER'S P. C. DOES IT AGAIN!

The Producers' Council Denver Chapter submitted their annual report July 29 to National Producers' Council. This annual report was entered along with the reports of other chapters in the Annual Awards contest for comparative programming for the year. This year, the Denver chapter was fortunate to win a Silver Bell trophy which is given to winners of outstanding programming for their particular class. There are four classes and hence four Silver Bell winners. The class is based primarily on the size of the chapter. Denver is in class 2 or second largest.

The Denver Chapter also walked away with the Silver Bowl Award the fourth straight year! The Silver Bowl Award is made for best programming of all chapters for the whole year. The criteria for judging is based on participation by members in programs, service and influence in the construction industry, enhancement of the prestige of Producers' Council, and development of chapter potential. The judges for the Silver Bowl award gave Denver a near perfect score on their annual report titled "Format for Specifying." The report includes factual data as well as graphic representation of various programs and activities which the Denver chapter participated in throughout the year. The Denver report showed a total of 42 programs and activities. These established the "Format for Specifying" and thus the theme and purpose related to the content for the annual report. The specification theme was used throughout the report, for example each title sheet graphically related to the writing of project specifications,

Earl F. Bennett, President of PC, awarded the trophy to Roland B. Proett of the Dow Chemical Co., Denver Chapter President. The Silver Bowl trophy is a traveling trophy and although Denver has a permanent Silver Bowl for winning three times in a row, the present one will be passed on to the Silver Bowl winner at the 1968 Producers' Council convention.

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New Construction Course Initiated

In an exclusive Symposia interview on September 6th, Mr. William Dunn, National Executive Director of the Associated General Contractors pinpointed **manpower** as the greatest single need of the Construction Industry. Less than a week later, Mr. Walter L. Meyer, a former past president of the Associated Building Contractors of Colorado, and presently an Associate Professor of Architectural Engineering at the University of Colorado, announced a new and exciting curriculum offered for the first time this year on the CU Campus.

The four year architectural engineering course provides an integrated program by the College of Engineering, with a building structures, construction, electrical or mechanical emphasis—it is designed to prepare a student for a career in the construction industry. This degree granting program in construction engineering has been long sought by members of the AGC, and Colorado University becomes one of less than a dozen Universities offering such a program (Arizona State University at Tempe is also included in this select group.) Construction is a rapidly growing field with exceptional opportunities for rewarding jobs with high earnings and security. There is an almost insatiable need for the professional and highly skilled **construction** man—not only today, but as the Nation's need for new and better building increases annually.

The first two years of the new Construction Curriculum follows the engineering format with fundamental courses in engineering, socio-humanistic fields and economics. The construction option is taken at the beginning of the Junior year and is especially appropriate for the student who wishes to work with or to become a General Contractor. Because of the diversified manpower needs and the necessity for managerial know-how, more business exposure is required in the Construction option than in fields directed to a specialization in analysis and design.

It is extremely heartening to see Universities in the Mountain Region responding to the pressing manpower needs of the construction community. Only trained manpower can bring to this dynamic new era of construction the means to translate our hopeful programs for human betterment into effective action.

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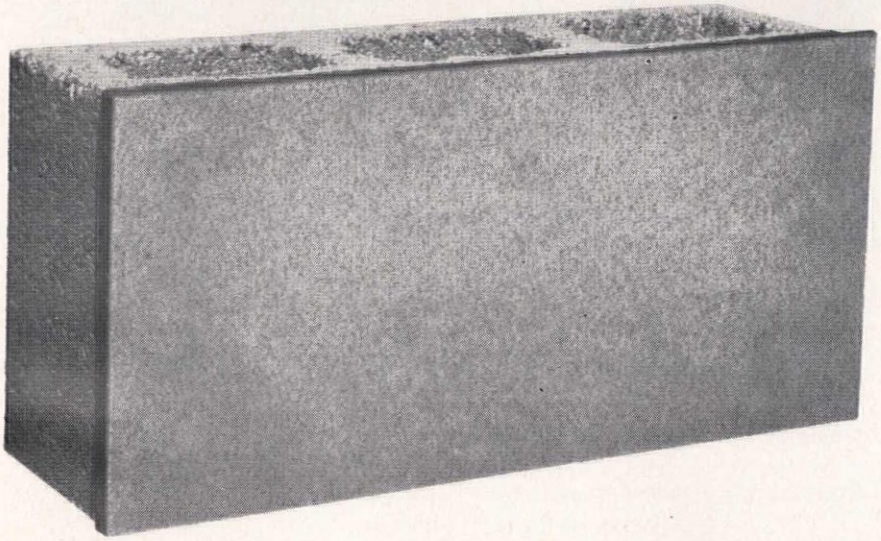

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Architectural/Planning Firm to Open

The Symposia announcement of a new architectural and planning firm in the area is particularly apropos this November as we feature "The Town Around Us." Marvin Hatami, AIA, (formerly of Baume, Polivnick and Hatami), Maxwell L. Saul, AIA/CSI (formerly Atchison, Kloverstrom, Saul and Atchison) and Floyd H. Tanaka, AIP, have pooled their considerable talents to form the firm of Hatami/Saul and Associates and Tanaka and Associates. With offices located in a charming, renovated ninety year old Victorian house at 1036 Grant Street on Denver's Capitol Hill, the new group will bring together a wide range of experience in design, construction and planning. In addition to comprehensive architectural services, the broader scope of city and regional planning, urban renewal planning, development planning and urban design will be offered.

Floyd H. Tanaka, a native of California, has been a resident of Colorado since 1942. He is a graduate of the University of Denver with a BA degree in Architecture and Planning. He has been actively engaged in the planning field as the Planning Engineer for the City of Colorado Springs, Colorado (1951-1954); Assistant Executive Director for the Denver Urban Renewal Authority (1956-1965); and as an associate in the private planning consulting firm of Harman O'Donnell & Henninger Associates. Floyd is a member of the American Institute of Planners, the American Society of Planning Officials and the National Association of Housing & Redevelopment Officials.

Mr. Hatami, a native of Tehran, Iran, was educated at the University of Tehran in civil engineering, received his BA in Architecture from University of Colorado in 1958 and Master of Architecture from Yale in 1961. He has worked in the offices of James Sudler Assoc.; W. C. Muchow Associates of Denver, Colo., and Philip Johnson and Paul Rudolph of New York City before becoming a partner in the firm of Baume, Polivnick & Hatami. Most recently he was in charge of the urban design study for Skyline Urban Renewal project. He has received numerous national and international awards in architectural design.

Maxwell L. Saul is the immediate past president of the Colorado Chapter of the American Institute of Architects. A former New Yorker, Max Saul has practiced in Denver since 1956 and will leave his present firm of Atchison, Kloverstrom, Saul & Atchison on December 4, 1967, to join the new group. He has been president of the Denver Chapter of the Construction Specifications Institute, Region 10 Director of CSI from 1963 to 1966, and is now serving on national committees of both AIA and CSI. He has taught a segment of the Architect's Refresher Course for the State Board Exam and has been a visiting lecturer at the School of Architecture at CU for a number of years.

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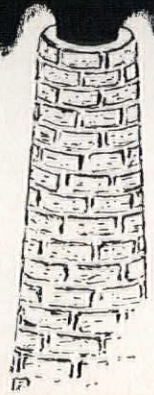

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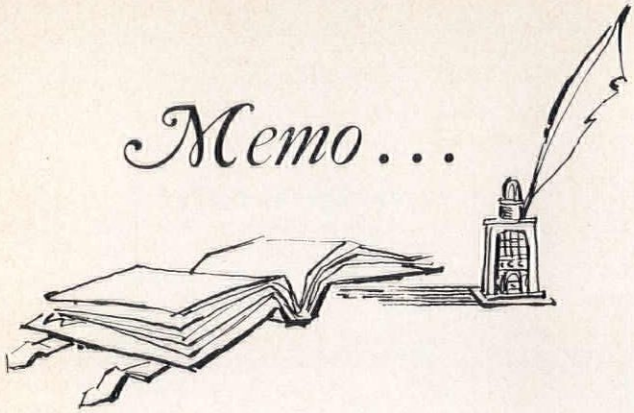

NOV. 1: Association of Remodeling Contractors/Board of Directors meeting. Dinner—6:30 p.m., Four Winds Motor Hotel, Denver.

NOV. 1: Consulting Engineers Council/Utah — Executive Board Meeting, Room 214, Ambassador Club, Salt Lake City. NOON. Confirm your attendance by calling Robert B. Jones, 364-7775.

NOV. 3-4: 19th Annual Convention/New Mexico Building Branch of the Associated General Contractors. La Fonda Hotel, Santa Fe, New Mexico.

NOV. 5-8: 16th Annual Convention/Western Mountain Region of the American Institute of Architects. Broadmoor Hotel, Colorado Springs, Colorado.

NOV. 7: Associated Building Contractors of Colorado, Inc. (AGC) Regular monthly dinner meeting of general contractor members. 6:30 p.m. Social hours . . . 7:00: Dinner. Brown Palace Hotel, Denver.

NOV. 7: Consulting Engineers Council/Colorado . . . Director's Meeting. Cocktails: 6:00 — Dinner: 6:30 p.m.—Denver Press Club. (Note: All members are invited and urged to attend Board meetings. For reservations, telephone 244-4717 before noon of the previous day.)

NOV. 8: Consulting Engineers Council/Utah — General meeting of the membership in the Oak Room, Ambassador Club, Salt Lake City. NOON! Confirm your attendance by calling Robert B. Jones, 364-7775.

NOV. 9: Mechanical Contractors/Colorado — Luncheon meeting. Noon, New Plumbing Showcase, 2727 West 6th Ave., Denver.

NOV. 9: Colorado Pipe Trades Industry Program/Board of Trustees. 4:00 p.m.—Plumbing Showcase, 2727 West 6th Ave., Denver.

NOV. 13: Associated Building Contractors of Colorado, Inc. (AGC) Regular monthly dinner meeting of Colorado Springs Area members. 6:30 p.m. — Dublin House, N. Academy Boulevard, Colorado Springs.

NOV. 14: Construction Specifications Institute/Albuquerque Chapter . . . General Membership Meeting. Drinks: 5:30 — Dinner: 6:30 — Program: 7:30 p.m. Sundowner Motel, Albuquerque. (Note: Any CSI members in town on this date are cordially invited to join "the group.")

NOV. 14: Construction Specifications Institute / Tucson Chapter—Board of Director's Meeting. 12:00 Noon—Casa Molina, Broadway—Tucson, Arizona.

NOV. 15: Construction Specifications Institute / Denver Chapter. Regular monthly membership meeting. Dinner: 6:30—Program: 7:30 p.m. Engineers Club Building, 1380 So. Santa Fe Drive . . . Denver.

NOV. 15: Women in Construction/Denver Chapter. Regular Membership Dinner meeting—6:00 p.m.—Ranch Manor Motor Inn, 1490 South Santa Fe Drive, Denver.

NOV. 15: Construction Specifications Institute / Phoenix Chapter. General membership meeting . . . Cocktails: 6:00—Dinner: 7:00 p.m. ABC Club, Mayer Central Building, Phoenix.

NOV. 20: Associated Building Contractors of Colorado, Inc. (AGC) Executive Committee Luncheon meeting, 12:00 Noon. Silver Room, Engineers Club Building, 1380 So. Santa Fe Drive, Denver.

NOV. 20: Producers Council/Intermountain Chapter. Award of Merit Program, Salt Lake City, Utah.

NOV. 21: Construction Specifications Institute/Salt Lake City Chapter.

NOV. 24: Symposia Editorial Advisory Board. 8:30 a.m.—Board Room/A. A. & E. B. Jones Construction Company—1050 South Jason, Denver.

NOV. 27: Construction Specifications Institute / Tucson Chapter. General Meeting—Cocktails: 6:30—Dinner: 7:30—Program: 8.15 p.m. Redwood Gay Nineties, 5534 E. Speedway, Tucson. (Reservations: Telephone Bob Entrekin, 622-7621.)

NOV. 27: Producers Council/Intermountain Chapter. Business Meeting and Election of Officers—Salt Lake City, Utah.

NOV. 28: Construction Specifications Institute / Denver Chapter Board Meeting. 12:00 Noon . . . Engineers Club Bldg., 1380 So. Santa Fe Dr., Denver.

NOV. 28: Associated Building Contractors of Colorado, Inc. (AGC) Annual meeting, regular members. Cocktails: 6:30—Dinner 7:00 p.m. Brown Palace Hotel—Denver.

NOV. 28: Consulting Engineers Council/Colorado. General Membership Meeting. Cocktails: 5:30—Dinner: 6:30 p.m. Denver Press Club.

NOV. 28: Construction Specifications Institute/Albuquerque Chapter. Board of Directors Meeting, Albuquerque, New Mexico.

NOV. 29: Mountain States Bureau for Lathing and Plastering, Inc. Board of Governor's Meeting—10:00 a.m. —221 Santa Fe Drive, Denver.

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symposia/about the cover

Since November's Symposia is the official for the 16th Western Mountain Region's AIA Conference, it was altogether proper to use Colorado Spring's architect, Harry M. Pierceall's handsome logo for "The Town Around Us." Queried concerning his "Concept," Harry replied, "That's an unexplainable . . . rather like asking the cartoonist about his cartoon. He's written the caption, and you either get it or you don't." We got it! We liked it! We used it!

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THE SPECIALTY JUNGLE

In the increasingly complex craft of construction, a new term is being heard more and more frequently: the specialty contractor.

Among others, it may be used to refer to the structural steel specialist, to an acoustical expert, or even more appropriately, to the mechanical contractor.

However, to complicate matters even further, the mechanical contractor has to be many specialists rolled together. He must be able to create efficient transportation systems for fluids and gases, solids and liquids, suspensions and solutions. He must be an expert in indoor climate, air pollution, water pollution and the atmosphere of physical well-being. He must be able to pump or drain an amazing variety of substances through intricately designed piping systems under widely varying extremes of temperature, pressure and chemical action. To completely fulfill these assignments—to the satisfaction of architect, engineer and himself—the mechanical contractor must also provide electronic control systems to assure that his basic creations obey their owners, automatically.

Obviously not within the competence of a simple sub-contractor, these highly specialized skills are not come by easily—either for the employing contractor or his journeyman pipefitter and plumber. As an example, few people realize that to qualify as a full-fledged journeyman takes five years of study and practical experience along with a working knowledge of trigonometry, geometry and algebra just to perform an ordinary day's work. Or that his knowledge of metallurgy must be adequate to the joining of more than a dozen types of metal pipe, each with its own characteristics of flex, contraction and expansion.

This group of unusual specialists contributes so extensively to the ultimate success of the building—to making it come alive—that it's not surprising when the mechanical contract amounts to 25 to 30 per cent of the total.

So when you hear the term "specialty contractor," may we ask that in our case you interpose the word "skilled" in front of it? We don't want to detract from any other valued member of the construction industry team, but in view of the size and qualifications of our contribution to the end result, we don't want to get lost in the specialty jungle, either.

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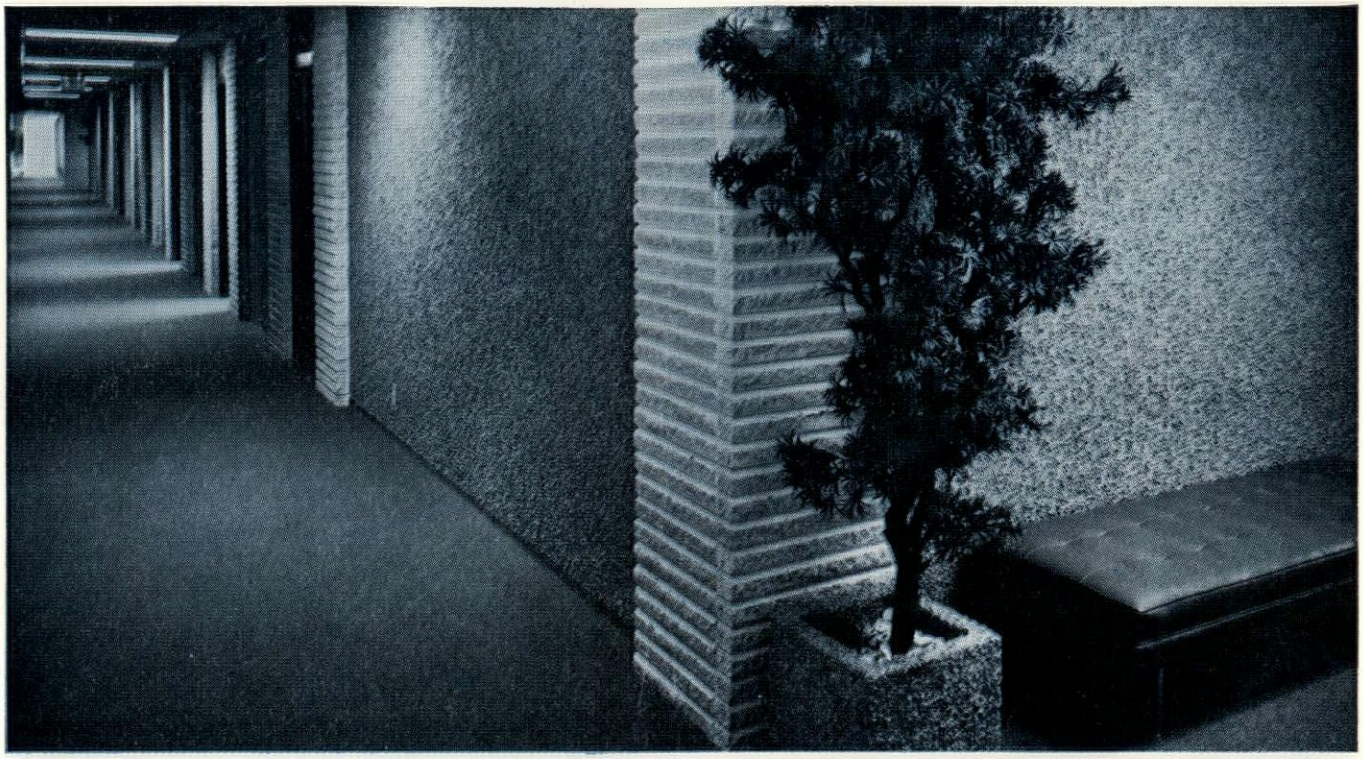

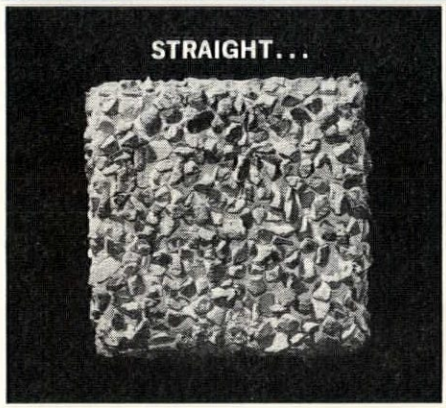

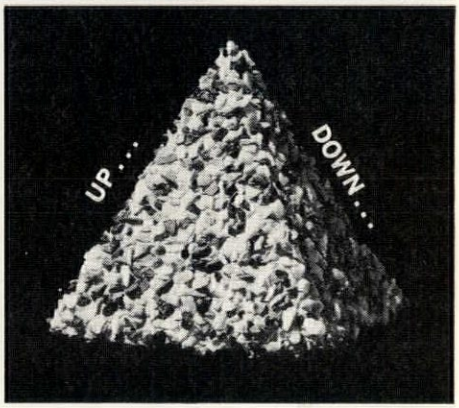

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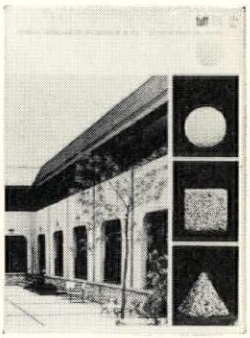

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